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UNIVERSITY OF ILLINOIS

College of Medicine

Catalog 1949-1950

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College of Medicine

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CALENDAR

1949 — Fall Quarter

Sept. 23, Fri. ..... Registration of new students.
Sept. 26, Mon. ..... Registration of undergraduate students.
Nov. 24, Thurs. ..... Thanksgiving Day.
Dec. 17, Sat. ..... Fall quarter ends.

1950 — Winter Quarter

Jan. 3, Tues. ..... Winter quarter begins.
Mar. 25, Sat. ..... Winter quarter ends.

1950 — Spring Quarter

Mar. 27, Mon. ..... Spring quarter begins for third-year and fourth-year students.
Apr. 3, Mon. ..... Spring quarter begins for first-year and second-year students.
Apr. 21, Fri. ..... Latest date for candidates for B.S. in Medicine degree to file application for degree.
May 30, Tues. ..... Memorial Day.
June 16, Fri. ..... Commencement exercises.
June 24, Sat. ..... Spring quarter ends.

1950 — Fall Quarter

Sept. 22, Fri. ..... Registration of new students.
Sept. 25, Mon. ..... Registration of undergraduate students.
Sept. 26, Tues. ..... Classes begin.

UNIVERSITY OF ILLINOIS

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Gehrmann Lectureship. M. V. Novak (Chairman), F. C. Lendrum, H. J. Shaughnessy.

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Adams, Raymond J., B.S., M.D., Assistant in Orthopaedic Surgery
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Akre, Osmund H., A.B., M.D., Clinical Associate in Medicine (Rush)
Alexander, Franz G., A.B., M.D., Clinical Professor of Psychiatry
Alexander, Marshall O., A.B., M.D., Clinical Instructor in Pathology
Allen, Edward D., B.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush)
Allen, Thomas D., A.B., M.D., Clinical Associate Professor of Ophthalmology (Rush)
Almquist, Carl O. G., B.S., M.D., Clinical Assistant Professor of Surgery
Altman, Charlotte H., A.M., Clinical Instructor in Criminology
Altschul, Sol, M.D., Assistant in Psychiatry
Amador, Luis V., B.S., M.D., Clinical Assistant in Neurology and Neurological Surgery
Amtman, Leo E., B.S., M.D., Clinical Assistant Professor of Medicine
Anastopoulos, Basil, M.D., Research Assistant in Medicine
Anderson, Charles D., M.S., M.D., Assistant Professor of Anesthesia (Rush)
Anderson, Harold W., B.S., M.D., Clinical Assistant in Otolaryngology
Andresen, Richard H., B.S., M.D., Instructor in Obstetrics and Gynecology (Rush)
Andrews, Albert H., M.S., M.D., Clinical Assistant Professor of Bronchoesophagology (Department of Otolaryngology)
Angell, Joseph S., M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
Anison, George C., B.S., M.D., Clinical Assistant in Bronchoesophagology (Department of Otolaryngology)
Apple, Carl, B.S., M.D., Clinical Associate Professor of Ophthalmology
Aren, Marvin W., B.S., M.D., Clinical Instructor in Medicine
Arkin, Aaron, Ph.D., M.D., Clinical Professor of Medicine (Rush)
Armstrong, S. Howard, Jr., A.B., M.D., Professor of Medicine (Rush)
Ashley, Charles A., A.B., M.D., Assistant in Pathology (Rush)
Austin, Stephen D., M.D., Assistant in Obstetrics and Gynecology (Rush)
Auten, Donald S., B.S., M.D., Assistant in Surgery
Avery, Loren W., A.B., M.D., Clinical Professor of Neurology (Rush)
Ayer, John P., A.B., M.D., Instructor in Pathology (Rush)
Bachem, Albert, Ph.D., Professor of Biophysics (Department of Physiology)
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Baird, Thomas A., B.S., M.D., Clinical Associate in Medicine (Rush)
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Ballard, George P., B.S., M.D., Clinical Assistant in Medicine
Bamberger, Arrie, B.S., M.D., Clinical Associate Professor of Surgery
Baratz, J. Joseph, B.S., M.D., Clinical Instructor in Pediatrics
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Barrick, Roy G., M.D., M.H.D., Clinical Assistant Professor of Criminology
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Beard, Hallard, B.S., M.D., Professor of Ophthalmology
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Bernstein, Arthur, B.S., M.D., Clinical Assistant Professor of Medicine
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Berry, Keith P., B.S., Assistant in Bacteriology
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Bessey, Otto A., Ph.D., Professor of Biological Chemistry and Head of the Department
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Brunner, Matthew J., B.S., M.D., Assistant Professor of Dermatology
Buchholz, Alexander M., M.S., M.D., Clinical Instructor in Dermatology
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Campbell, James A., A.B., M.D., Assistant Professor of Medicine (Rush)
Campbell, Leo K., B.S., M.D., Clinical Professor of Medicine (Rush)
Carey, Clair M., B.S., M.D., Clinical Associate in Obstetrics and Gynecology
Carmichael, Hugh T., M.D., M.S., C.M., Professor of Psychiatry
Caro, Marcus R., B.S., M.D., Clinical Professor of Dermatology
Carstens, H. Paul, M.S., M.D., Clinical Instructor in Medicine
Carter, J. Bailey, M.S., M.D., Clinical Assistant Professor of Medicine (Rush)
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Chainski, Edward, B.S., M.D., Clinical Assistant Professor of Otolaryngology
Chandler, Fremont A., B.S., M.D., Professor of Orthopaedic Surgery and Head of the Department
Chapman, Robert A., A.B., M.D., Clinical Assistant in Medicine
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Stein, Albert F., B.S., M.D., Clinical Instructor in Pediatrics
Stein, Seymour N., A.B., B.S., M.D., Assistant Professor of Psychiatry and Research Physiologist
Stenn, Frederick, M.S., M.D., Lecturer in History of Medicine
Sternberg, Paul, B.S., M.D., Clinical Associate in Ophthalmology
Stetson, Lawrence J., B.S., M.D., Assistant in Radiology
Stewart, Gordon S., Ph.D., Assistant Professor of Biological Chemistry (Rush)
Sticka, Edward A., M.D., Assistant in Urology (Rush)
Stillerman, Manuel L., B.S., M.D., Instructor in Ophthalmology
Stone, Elizabeth, Electroencephalographer (Department of Psychiatry)
Stone, Frank L., M.D., Clinical Assistant Professor of Obstetrics and Gynecology, *Emeritus*
Stone, Fred D., B.S., M.D., Clinical Instructor in Pathology
Straus, Elizabeth K., A.B., M.D., Clinical Assistant Professor of Medicine (Rush)
Straus, Francis H., B.S., M.D., Clinical Associate Professor of Surgery (Rush), assigned to Anatomy part time
Strauss, Sidney, A.B., M.D., Clinical Professor of Medicine, *Emeritus*
Streicher, Michael H., M.S., M.D., Associate Professor of Medicine
Strohl, Everett L., M.S., M.D., Clinical Assistant Professor of Surgery
Stulik, Charles K., Ph.G., Ph.C., B.S., M.D., Clinical Associate Professor of Pediatrics (Rush)
Stuppy, George W., Ph.D., M.D., Clinical Assistant Professor of Medicine (Rush)
Sugar, Oscar, Ph.D., M.D., Instructor in Neurological Surgery
Sukis, Anthony E., B.S., M.D., Clinical Assistant in Otolaryngology
Swisher, William P., B.S., M.D., Clinical Associate in Medicine
Sykora, Lawrence J., M.D., Clinical Assistant in Obstetrics and Gynecology
Szymanski, Frederick J., M.D., Clinical Instructor in Dermatology
Tacke, Arthur W., B.S., M.D., Assistant in Ophthalmology (Rush)
Talbott, Ralph E., A.B., B.S., M.D., Clinical Assistant Professor of Psychiatry (Rush)
Tamari, Marvin, M.D., Associate Professor of Otolaryngology
Tarlow, Virginia, B.S., M.D., Instructor in Psychiatry
Tavs, Louise E., A.B., M.D., Clinical Associate in Dermatology
Taylor, Charles B., B.S., M.D., Assistant Professor of Pathology (Rush)
Taylor, Samuel G., III, A.B., M.D., Assistant Professor of Medicine
Taylor, Welton I., Ph.D., Instructor in Bacteriology
Telser, Stanley E., A.B., M.D., Clinical Instructor in Medicine
Teschan, Paul E., M.S., M.D., Clinical Assistant in Medicine (Rush)
Tesluk, Henry, A.B., M.D., Assistant in Pathology (Rush)
Teton, Joseph B., B.S., M.D., Clinical Associate in Obstetrics and Gynecology, and Gynecological Consultant
Textor, Charles S., II, M.S., M.D., Clinical Instructor in Neurosurgery (Rush)
Theis, Frank V., B.S., M.D., Clinical Assistant Professor of Surgery (Rush)
Theobald, Georgiana D., M.D., Associate Professor of Ophthalmology and Clinical Pathologist
Theobald, Walter H., B.S., M.D., Clinical Associate Professor of Otolaryngology
Thomas, Henry B., B.S., M.D., Professor of Orthopaedic Surgery, *Emeritus*
Thomas, William A., Ph.B., M.D., Clinical Professor of Medicine (Rush)
Thompson, J. Robert, M.D., Clinical Instructor in Pathology
Thompson, Robert E., Ph.D., Professorial Lecturer in Pharmacology
Thompson, Willard O., A.B., M.D., Clinical Professor of Medicine
Thorek, Philip, B.S., M.D., Clinical Assistant Professor of Surgery
Thrift, C. B., B.S., M.D., Clinical Assistant in Medicine (Rush)
Thurston, Eric W., M.D., Clinical Instructor in Pathology
Tice, Frederick, M.D., Clinical Professor of Medicine, *Emeritus*
Tigay, Clara D., A.B., M.D., Clinical Instructor in Pediatrics
Timblin, William S., B.S., M.D., Clinical Instructor in Medicine

Tolomeo, Prudence P., B.S., Research Assistant in Dermatology
Traut, Eugene F., B.S., M.D., Clinical Associate Professor of Medicine (Rush)
Trimmer, Ralph W., M.D., Clinical Associate Professor of Medicine (Rush)
Turner, George C., B.S., M.D., Clinical Associate in Medicine (Rush)
Turner, Horace E., B.S., M.D., Clinical Associate in Orthopaedic Surgery
Unna, Klaus R. W., M.D., Associate Professor of Pharmacology
Urist, Martin J., A.M., M.D., Instructor in Ophthalmology
Utley, Jean L., Ph.D., Assistant Professor of Audiology and Associate Director of Speech and Hearing Clinic (Department of Otolaryngology)
ValDez, Mabel A., B.S., O.T.R., Assistant in Occupational Therapy (Department of Physical Medicine and Rehabilitation)
Van Alyea, Oliver E., M.D., Clinical Associate Professor of Otolaryngology
Vance, Graham A., B.S., M.D., Instructor in Medicine
VanderKloot, Albert, M.D., Clinical Associate Professor of Medicine
Van Hazel, Willard, A.B., M.D., Clinical Associate Professor of Surgery
Van Winkle, Walton, Jr., A.B., M.D., Professorial Lecturer in Pharmacology
Varzino, Louis S., B.S., M.D., Clinical Instructor in Orthopaedic Surgery (Rush)
Vaughan, Roger T., Ph.B., M.D., Clinical Associate Professor of Surgery (Rush), *Emeritus*
Vawter, Gordon F., M.D., Assistant in Pathology (Rush)
Verbrugghen, Adrien, B.M., Ch.M., M.S., Clinical Professor of Neurological Surgery (Rush), assigned to Anatomy part time
Vermeulen, Cornelius W., A.B., M.D., Associate Professor of Surgery
Vicher, Edward E., Ph.D., Assistant Professor of Bacteriology
Victor, Samuel, M.D., Clinical Instructor in Psychiatry
Von Witzleben, Henry D., M.D., Clinical Instructor in Neurology
Vorhaus, Louis J., M.D., Clinical Assistant in Medicine
Wachowski, Theodore J., B.S., M.D., Clinical Professor of Radiology and Associate Radiologist
Waddington, Harry K., B.S., M.D., Assistant in Obstetrics and Gynecology
Wade, Beatrice D., A.B., O.T.R., Associate Professor and Director of Occupational Therapy (Department of Physical Medicine and Rehabilitation)
Wade, Frederick E., B.S., M.D., Assistant in Ophthalmology
Wahl, Frederick J., B.S., M.D., Assistant in Surgery (Rush)
Waisman, Harry A., Ph.D., M.D., Research Associate in Pediatrics
Wakerlin, George E., Ph.D., M.D., Professor of Physiology and Head of the Department
Wallner, Linden J., B.S., M.D., Clinical Assistant Professor of Otolaryngology (Rush)
Walsh, Frank J., B.S., M.D., Clinical Associate in Obstetrics and Gynecology
Watkins, Richard W., B.S., M.D., Clinical Associate Professor of Otolaryngology (Rush)
Watson, Robert W., M.D., Instructor in Radiology
Watt, Lucille, M.S., M.D., Clinical Instructor in Anesthesia (Rush)
Weatherly, Howard E., A.B., M.D., Clinical Assistant Professor of Psychiatry
Weber, Leonard F., M.D., Clinical Professor of Dermatology
Webster, John C., A.B., M.D., D.Sc., LL.D., Professor of Obstetrics and Gynecology (Rush), *Emeritus*
Wehrle, Paul F., B.S., M.D., Assistant in Pediatrics
Weichselbaum, Paul K., M.S., M.D., Clinical Assistant Professor of Dermatology
Weidemann, John, B.S., M.D., Clinical Assistant in Otolaryngology
Weinberg, Bernhard J., B.S., M.D., Clinical Assistant in Medicine
Weinberg, Jack, B.S., M.D., Clinical Assistant Professor of Psychiatry
Weiner, Robert G., B.S., M.D., Clinical Assistant in Medicine
Weinfeld, Gustav F., M.D., Clinical Associate in Criminology
Weisdorf, William, B.S., M.D., Clinical Instructor in Psychiatry
Weiss, Eugene, M.S., M.D., Clinical Assistant in Medicine
Weiss, Kenneth S., M.D., Assistant in Anesthesia
Welford, Norman T., M.D., Clinical Assistant in Pediatrics
Welker, William H., Ph.D., D.Sc., Professor of Biological Chemistry, *Emeritus*
White, Adeline R., B.S., M.D., Assistant in Anatomy, *Emerita*
Whitehorn, William V., A.B., M.D., Assistant Professor of Physiology
Whitlock, Richard F., B.S., M.D., Assistant in Obstetrics and Gynecology
Wien, Norman A., B.S., M.D., Clinical Instructor in Medicine

Wilkins, Walter J., Jr., M.D., Assistant in Surgery (Rush)
Williams, J. Lisle, A.M., M.D., Clinical Associate in Medicine
Wilson, Audrey L., B.S., M.D., Clinical Assistant Professor of Radiology
Wilson, Charles, B.S., M.D., Assistant in Ophthalmology (Rush)
Wilson, Franklin S., Ph.G., M.D., Assistant Professor of Medicine (Rush), *Emeritus*
Wilson, Hugh, A.B., M.D., Instructor in Clinical Pathology
Wittman, M. Phyllis, Ph.D., Clinical Assistant Professor of Psychology
Wojniak, Frank, M.D., Clinical Assistant Professor of Otolaryngology (Rush)
Wolf, Abraham A., B.S., M.D., Clinical Instructor in Pediatrics
Wolf, Alexander, B.S., M.D., Clinical Associate in Medicine
Wolff, John R., M.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Wones, Edward, B.S., M.D., Clinical Assistant in Ophthalmology
Wood, Willard L., M.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Woodruff, Lewis W., B.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Woods, Robert P., B.S., M.D., Clinical Assistant in Neurology and Neurological Surgery
Woodyatt, Rollin T., B.S., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
Wright, Donovan G., B.S., M.D., Clinical Assistant Professor of Psychiatry
Yellen, Harry J., B.S., M.D., Clinical Instructor in Medicine
Yonan, John B., B.S., M.D., Clinical Assistant in Medicine
Youmans, John B., M.S., M.D., Professor of Medicine, Dean of the College of Medicine, and Medical Director of the Research and Educational Hospitals and the Illinois Eye and Ear Infirmary
Young, Charles W., B.S., M.D., Clinical Assistant in Medicine
Zechel, Gustav L., M.D., Associate Professor of Anatomy, assigned to Surgery part time
Zeitlin, Howard, M.S., M.D., Clinical Assistant Professor of Neurology
Zekman, Theodore N., A.B., B.S., M.D., Clinical Assistant Professor of Ophthalmology
Zeldin, A. Joel, B.S., M.D., Assistant in Otolaryngology
Zeller, Michael, M.D., Clinical Instructor in Medicine
Zimmermann, Arnold A., D. ès S., Professor of Anatomy
Zimring, Allan J., B.S., M.D., Clinical Instructor in Anatomy
Zivin, Simon, M.D., Clinical Assistant in Medicine
Zolt, Nathan, M.D., Clinical Instructor in Neurology

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Robert C. Berson, Assistant Medical Director
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Mr. William R. Williams

HOSPITAL STAFF

Research and Educational Hospitals

MEDICINE

Robert H. Keeton, Physician-in-Chief

Attending Physicians

Edmund F. Foley
Ford K. Hick
Robert M. Kark
LeRoy H. Sloan
Willard O. Thompson

Associate Attending Physicians

Carroll L. Birch
Hugo O. Deuss
Louis Feldman
Frederick C. Lendrum
Louis R. Limarzi
Max M. Montgomery
Ben Z. Rappaport
Mitchell A. Spellberg

Assistant Attending Physicians

Irwin R. Callen
Nathaniel O. Calloway
Herman A. Levy
Jerome T. Paul
Eugene J. Ranke
Norman B. Roberg
William P. Swisher

Hematologist

Louis R. Limarzi

Resident

Charles A. Gianasi

Assistant Residents

William R. Best
Russell A. Forrest
Paul A. Meredith
Louis J. Vorhaus, II
Charles W. Young

DERMATOLOGY

Francis E. Senear, Dermatologist-in-Chief

Attending Dermatologist

Theodore Cornbleet

SURGERY

Warren H. Cole, Surgeon-in-Chief

Attending Surgeons

Géza de Takats
Paul W. Greeley
Charles B. Puestow
Louis W. Schultz
Willard Van Hazel

Associate Attending Surgeons

Carl Ireneus, Jr.
Ormond C. Julian
John T. Reynolds
Danely P. Slaughter

Assistant Attending Surgeons

Edson F. Fowler
Robert J. Jensik
George D. Kaiser
Lawrence W. Peterson
William H. Requarth

Resident Surgeon

Ward H. Eastman

Assistant Resident Surgeons

Donald S. Auten
William J. Grove
Hushang Javid
Harry Southwick

UROLOGICAL SURGERY

Joseph H. Kiefer, Urologist-in-Chief

Attending Urologist

Cornelius W. Vermeulen

ANESTHESIA

Max S. Sadove, Anesthetist-in-Chief

Resident Anesthetist

Reuben C. Balagot

Assistant Resident Anesthetists

Ludwig L. Blum
John T. Nelson
Arun K. Sen
Kenneth S. Weiss
Jou Sheng Tchao

ORAL SURGERY

Louis W. Schultz, Oral Surgeon-in-Chief

PLASTIC SURGERY

Paul W. Greeley, Surgeon-in-Chief

Attending Plastic Surgeon

Bernard G. Sarnat

OBSTETRICS AND GYNECOLOGY

OBSTETRICS

Frederick H. Falls, Obstetrician-in-Chief

Attending Obstetrician

William H. Browne

Associate Attending Obstetricians

James P. FitzGibbons
Vincent C. Freda
Charles D. Krause
Armand J. Mauzey

Assistant Attending Obstetricians

Dorothy A. Chess
Rocco V. Lobraico
Harry K. Waddington

Resident Obstetrician

Richard W. Karraker

Assistant Resident Obstetricians

Joseph J. Griffin — John B. Nettles
Richard F. Whitlock

GYNECOLOGY

Frederick H. Falls, Gynecologist-in-Chief

Attending Gynecologist

William H. Browne

Associate Attending Gynecologists

James P. FitzGibbons — Charles D. Krause
Vincent C. Freda — Armand J. Mauzey

Assistant Attending Gynecologists

Rocco V. Lobraico — Dorothy A. Chess
Harry K. Waddington

Resident Gynecologist

Richard W. Karraker

Assistant Resident Gynecologists

Joseph J. Griffin — John B. Nettles
Richard F. Whitlock

PEDIATRICS

Henry G. Poncher, Pediatrician-in-Chief

Attending Pediatricians

Samuel H. Barron, Jr. — Edward F. Lis
I. Pat Bronstein — Carl J. Marienfeld
Kurt Glaser — Julius B. Richmond
Morris Green — Ralph Spaeth

Associate Attending Pediatricians

Lester E. Bower — Louis S. Halpern
George S. Frauenberger — Herbert R. Kobes
Benjamin M. Gasul — Thomas P. Saltiel
Noel G. Shaw

Assistant Attending Pediatricians

J. Joseph Baratz — Mildred R. Jackson
Lawrence Breslow — Abraham A. Wolf

Resident Pediatricians

Sterling D. Garrard — Glenn Gibson
Paul F. Wehrle

Assistant Resident Pediatrician

Kenneth Nolan

PSYCHIATRY

Francis J. Gerty, Psychiatrist-in-Chief
Hugh T. Carmichael, Associate Chief Psychiatrist
Paul Nielson, Chief of Service

Attending Psychiatrists

Franz G. Alexander
David Shakow (Psychologist)

Associate Attending Psychiatrists

Beulah C. Bosselman
L. William Earley
Ladislas J. Meduna

Assistant Attending Psychiatrists

Henry H. Fineberg
Kalman Gyarfas
Joel Handler
Marc Hollender
Barbara S. Lipton
Rudolph Novick
George L. Perkins
Alden Raisbeck
Harry M. Segenreich
Irene C. Sherman
Sophie S. Sloman
Virginia Tarlow
Donovan G. Wright

CLINICAL PSYCHOLOGY

David Shakow, Chief Psychologist

Psychologists

Gloria Leviton
Julian H. Pathman
Alan K. Rosenwald

ELECTROENCEPHALOGRAPHIC SERVICE

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Erna L. Gibbs
George Mowery

Assistant Resident Psychiatrists

Sol Altschul
Myrtle Bernstein
Bernard Block
William Devlin
Joan Longini
George H. Pollock

ORTHOPAEDIC SURGERY

Fremont A. Chandler, Orthopaedic Surgeon-in-Chief

Attending Orthopaedic Surgeons

Fred W. Hark
Claude N. Lambert

Associate Attending Orthopaedic Surgeon

John J. Fahey

Assistant Attending Orthopaedic Surgeon

Theodore A. Fox

Resident Orthopaedic Surgeons

Raymond J. Adams
Robert C. Bechtol
Robert E. Buckmaster
Alan R. Crain
Charles T. Flynn
Kenneth G. Jones
Ralph T. Lidge

NEUROLOGY AND NEUROLOGICAL SURGERY

ERIC OLDBERG, Chief of Service

Attending

PERCIVAL BAILEY — PAUL C. BUCY
ROLAND P. MACKAY

Associate Attending

BEN W. LICHTENSTEIN

Assistant Attending

OSCAR SUGAR

Residents

LUIS V. AMADOR — DONALD B. FRESHWATER
PAUL H. CRANDALL — MELVIN L. SCHWARTZ
ROBERT P. WOODS

OPHTHALMOLOGY

WILLIAM F. HUGHES, JR., Ophthalmologist-in-Chief

Attending Ophthalmologists

HALLARD BEARD — JOSEPH S. HAAS

Associate Attending Ophthalmologists

MAURICE PEARLMAN — MANUEL STILLERMAN

Resident Ophthalmologists

CHARLES V. BARRETT — JAMES M. HALL

OTOLARYNGOLOGY

FRANCIS L. LEDERER, Otolaryngologist-in-Chief

Attending Otolaryngologists

PAUL H. HOLINGER — MAURICE F. SNITMAN
JOSEPH G. SCHOOLMAN — MARVIN J. TAMARI

Associate Attending Otolaryngologists

ALBERT H. ANDREWS — G. KENNETH LEWIS

Assistant Attending Otolaryngologists

OSCAR J. BECKER — IRWIN D. HORWITZ
HELMUT BLUMENTHAL — RICHARD E. MARCUS
MAX H. CUTLER — FRANK J. NOVAK
EMANUEL M. SKOLNIK

Resident Otolaryngologists

LAWRENCE L. COHEN — ROBERT J. MCMAHON
ROSS R. GOLDWARE — MONTE G. STEADMAN

PATHOLOGY

GRANVILLE A. BENNETT, Pathologist-in-Chief

Associate Pathologists

CECIL A. KRAKOWER MAURICE LEV

Assistant Pathologist

ELIZABETH A. MCGREW

Resident Pathologist

ETHEL E. ERICKSON

Assistant Resident Pathologists

F. D. DALLENBACH GERALD FINE

PHYSICAL MEDICINE AND REHABILITATION

H. WORLEY KENDELL, Chief of Physical Medicine and Rehabilitation

Associate Attending

ARTHUR A. RODRIQUEZ

Director of Occupational Therapy Section

BEATRICE D. WADE

Acting Clinical Director of Physical Therapy Section

DOROTHY M. IDDINGS

RADIOLOGY

ROGER A. HARVEY, Radiologist-in-Chief

Associate Radiologist

THEODORE J. WACHOWSKI

Assistant Radiologists

ABRAHAM GROSSMAN LEWIS HAAS
ARTHUR S. J. PETERSEN

Resident Radiologists

KEITH R. IRISH WILLIAM A. KLAUBER

Assistant Resident Radiologists

CARL E. CLARK ANTON M. PANTONE
WILLIAM S. JUDY LAWRENCE J. STETSON

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MILAN V. NOVAK, Bacteriologist-in-Chief

Assistant Bacteriologists

ESTHER MEYER EDWARD E. VICHER

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Samuel A. Levinson, Director
Robert P. MacFate, Assistant Director

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Malcolm Campbell
Robert Canham
Joseph Donahoe
Bruce Ehmke
Katherine Gardner
James Ginsberg
Marcia Gordon
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Gerald Jankowicz
Robert Jeans
Betty Kizer
Melvin Krugly
Seymour Langer
Nick Levitsky
Donald Lulu
Charles Luttrell
Eugene Miller
John Morrissey
Emma Sailors
Juan Swain
Patricia Teschan
Vernon Vernier

NURSING SERVICE

Ann Lucille Laird, Director of Nursing

SOCIAL SERVICE

Marian E. Russell, Director of Social Service

DIETARY SERVICE

Hildur Hellberg, Director of Dietary Service (on leave of absence)
Alpha Q. Stine, Acting Director

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Alphid Anderson Norris, Medical Records Librarian

CLINIC STAFF

Research and Educational Hospitals

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Chiefs of Clinic

Ford K. Hick
Herman A. Levy

Attending Physicians

Carroll L. Birch
Duane D. Darling
Hugo O. Deuss
Louis Feldman
Jacob W. Fischer
Edmund F. Foley
Moses Goldwasser
Ford K. Hick
Robert M. Jones
Robert O. Levitt
Herman A. Levy
Meyer R. Lichtenstein
Louis R. Limarzi
Max M. Montgomery
Milton M. Mosko
Jerome T. Paul
Benjamin Pearlman
Samuel Perlstein
Eugene J. Ranke
Ben Z. Rappaport
Israel I. Ritter
Samuel H. Rosenblum

Max Samter
Mitchell A. Spellberg
Irving E. Steck
Frederick Steigmann
Michael H. Streicher

Associate Attending Physicians

Carl F. Baumeister
Paul L. Bedinger
George J. Brebis
Irwin R. Callen
Samuel E. Ditkowsky
Louis Edidin
Eugene Grosz
Eslie Hartman
Harold M. Hoover
William A. Hutchison
Kenneth C. Johnston
Robert M. Kark
Jerome S. Mehlman
Theodore Z. Polley
Duane W. Propst
Paul Ravenna
Alfred H. Rosenblum
Irvin S. Siglin
William P. Swisher
Samuel G. Taylor, III
Alexander Wolf

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Marvin W. Aren
Peter J. Beinar
Max Berg
Robert D. Berke
Max M. Bernstein
Gaetano A. Bica
Albin M. Brixey, Jr.
H. Paul Carstens
Robert A. Chapman
Ernst Cronheim
Norman J. Ehrlich
Emanuel J. Feinhandler
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Luke J. Grimelli
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Julius A. Gurvey
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Edward L. Jackson
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Samuel Klein
Howard J. LeVine
Warren C. Lewis
Jerome J. Lubin
Leo F. Narut
John R. Necheles
Harry N. Petrakos
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Joseph M. Robbins
Abraham I. Rosenblum
Frederick Sargent
Ralph A. Scala
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William R. Sladek
Irving Slott
William S. Timblin
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Robert G. Weiner
Eugene Weiss
Norman A. Wien
John B. Yonan
Simon Zivin

DERMATOLOGY

Francis E. Senear, Chief of Clinic

Attending Dermatologists

Marcus R. Caro
Theodore Cornbleet
Adolph Rostenberg, Jr.
Leonard F. Weber

Associate Attending Dermatologists

Paul P. Boswell
Matthew J. Brunner
Alexander M. Buchholz
Paul R. Griffith
John B. Haeberlin, Jr.
Irene Neuhauser
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Harvey C. Roll
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Louise E. Tavs
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Philip Latta

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George D. Kaiser, Chief of Clinic

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Carl O. Almquist
Géza de Takats
Paul W. Greeley
Carl Ireneus, Jr.
Hilger P. Jenkins
Ormand C. Julian
John V. Prohaska
John T. Reynolds
Louis W. Schultz
Julius Spivack
Philip Thorek
Willard Van Hazel

Associate Attending Surgeons

C. David Brown
Edson F. Fowler
Raymond Green
Frank C. Hofrichter
Louis A. Holub
Robert J. Jensik
Herman L. Mishkin
Lawrence W. Peterson
William H. Requarth
Harold A. Roth
Gustav L. Zechel

Assistant Attending Surgeons

Edward J. Hill, Jr.
James D. Majarakis

UROLOGY

Joseph H. Kiefer, Chief of Clinic

Attending Urologists

Russell D. Herrold
Colquitt O. Ritch
Frederick W. Schacht
Cornelius W. Vermeulen

Associate Attending Urologist

Joseph S. Drabanski

OBSTETRICS AND GYNECOLOGY

OBSTETRICS

Frederick H. Falls, Chief of Clinic

Attending Obstetrician

William H. Browne

Associate Attending Obstetricians

James P. FitzGibbons
Vincent C. Freda
Charles D. Krause
Armand J. Mauzey

Assistant Attending Obstetricians

Sol J. Benensohn
Michael H. Boley
Ashley M. Brand
Marvin R. Brumme
Clair M. Carey
Dorothy A. Chess
Sol T. DeLee
Robert J. Glenner
Jerome D. Kaufman
Rocco V. Lobraico
Thomas T. McDougal
Theodore C. Mouzakeotis
John A. Moyer
Adrian R. Oleck
Frederick J. Roos
C. Otis Smith
Lawrence I. Sykora
Joseph B. Teton
Harry K. Waddington
Frank J. Walsh

GYNECOLOGY

Frederick H. Falls, Chief of Clinic

Attending Gynecologist

William H. Browne

Associate Attending Gynecologists

James P. FitzGibbons
Vincent C. Freda
Charles D. Krause
Armand J. Mauzey

Assistant Attending Gynecologists

Michael H. Boley
Clair M. Carey
Robert J. Glenner
Jerome D. Kaufman
Richard A. Lifvendahl
Rocco V. Lobraico
Theodore C. Mouzakeotis
Adrian R. Oleck
George H. Rezek
Frederick J. Roos
Harold E. Smith
Lawrence J. Sykora
Joseph B. Teton
Harry K. Waddington
John R. Wolff

PEDIATRICS

Henry G. Poncher, Chief of Clinic

Attending Pediatricians

Samuel H. Barron
I. Pat Bronstein
Kurt Glaser
Morris Green
Edward F. Lis
Carl I. Marienfeld
Julius B. Richmond

Associate Attending Pediatricians

Lester E. Bower
George S. Frauenberger
Benjamin M. Gasul
Louis J. Halpern
Herbert R. Kobes
Thomas P. Saltiel
Noel G. Shaw

Assistant Attending Pediatricians

J. Joseph Baratz
Lawrence Breslow
Mildred R. Jackson
Norbert Pauker
Irving B. Richter
Clara Tigay
Abraham A. Wolf

PSYCHIATRY

Lester MacLean, Chief of Service

Associate Attending Psychiatrists

Beulah C. Bosselman
Frederic A. Gibbs

Assistant Attending Psychiatrists

H. Hugh Beguesse
L. William Earley
Kalman Gyarfas
Joel Handler
David Harman
Samuel Liebman
Barbara Lipton
Lester MacLean
Robert G. McMillan
William J. Nolan
Rudolph Novick
Erich Paschkes
Jacob Paskind
Alden Raisbeck
Irene C. Sherman
Israel D. Sonenthal

Frederick Stamps
George Stanton
Virginia Tarlow
Samuel Victor
William Weisdorf
Donovan G. Wright

ORTHOPAEDIC SURGERY

Fremont A. Chandler, Chief of Clinic

Attending Orthopaedic Surgeons

John J. Fahey
Fred W. Hark
Claude N. Lambert

Associate Attending Orthopaedic Surgeons

Joseph D. Farrington
William A. Marshall
Leo F. Miller
Horace E. Turner

Assistant Attending Orthopaedic Surgeons

Kurt Eichelbaum
Theodore A. Fox
Herman Joffe

NEUROLOGY AND NEUROLOGICAL SURGERY

Eric Oldberg, Chief of Clinic

Attending

Loren W. Avery
Paul C. Bucy
Ben W. Lichtenstein
Roland P. Mackay
Adrien Verbrugghen

Associate Attending

Wesley A. Gustafson
Ernst Haase
Oscar Sugar
Henry D. Von Witzleben
Howard Zeitlin

Assistant Attending

Joseph P. Cascino
John F. Paget
Irving J. Speigel
Charles S. Textor, II
Nathan Zolt

OPHTHALMOLOGY

Hallard Beard, Chief of Clinic

Attending Ophthalmologist

Roy O. Riser

Associate Attending Ophthalmologists

Myron C. Benford
Roosevelt Brooks
Jack P. Cowen

Assistant Attending Ophthalmologists

Fred G. Cox
Louis Feinberg
Leona R. Fordon
Robert R. Herbst

OTOLARYNGOLOGY

Oliver E. Van Alyea, Chief of Clinic

Attending Otolaryngologists

Paul H. Holinger (Bronchoesophagology)
Marvin J. Tamari
Walter H. Theobald
Richard W. Watkins

Associate Attending Otolaryngologists

Albert H. Andrews (Bronchoesophagology)
Oscar J. Becker
Bruno Blumklotz
Edward L. Chainski
Arthur J. Coombs
Noah D. Fabricant
Noah Fox
Stanton A. Friedberg
Kenneth C. Johnston (Bronchoesophagology)
Norman Leshin
G. Kenneth Lewis
Robert B. Lewy
George S. Livingston
Samuel M. Morwitz
Louis Savitt
Joseph G. Schoolman
Gordon H. Scott
Sherman L. Shapiro
Harkishen Singh
Irwin G. Spiesman
Linden J. Wallner
Frank Wojniak

Assistant Attending Otolaryngologists

George Anison
Helmut Blumenthal
Max H. Cutler
Lois D. Greene
Gerald E. Guemmer
Maurice M. Hoeltgen
Irwin D. Horwitz
Richard E. Marcus
Lloyd L. Matzkin
Leonard Nianick
Frank Novak
Edmund V. Pellettiere
Frederic J. Pollock
Emanuel Skolnik
Burton J. Soboroff
Kurt Springer
John Weidemann

Resident Otolaryngologists

Lawrence L. Cohen
Ross R. Goldware
Robert J. McMahon
Monte G. Steadman

TUMOR CLINIC

Danely P. Slaughter, Chief of Clinic

Attending

Theodore J. Wachowski (Radiology)

Associate Attending

Edson F. Fowler (Surgery)
Vincent C. Freda (Gynecology)
Lawrence W. Peterson (Surgery)
Joseph G. Schoolman (E.N.T.)
Samuel G. Taylor, III (Medicine)

Assistant Attending

Michael H. Boley (Gynecology)
Frederic A. dePeyster (Surgery)
Joseph J. Griffin (Gynecology)
Irwin Horwitz (E.N.T.)
Rocco Lobraico (Gynecology)
James D. Majarakis (Surgery)
George Pastnack (Surgery)
Philip Shambaugh (Surgery)

DENTAL CLINIC

MAURY MASSLER, Chief of Clinic

Attending Dental Surgeon

ARTHUR ELFENBAUM

Associate Attending Dental Surgeons

W. HOWARD KUBACKI
BERNARD G. SARNAT

Assistant Attending Dental Surgeons

ROBERT ATTERBURY
SOLOMON SMITH

Resident Dental Surgeon

RALPH B. NEADERLAND

Extramural Dental Residents

ISADORE RAPPAPORT
MERRILL J. SHEPRO

Illinois Neuropsychiatric Institute

NEUROLOGY AND NEUROLOGICAL SURGERY

ERIC OLDBERG, Chief of Service

Attending

PERCIVAL BAILEY
PAUL C. BUCY
ROLAND P. MACKAY

Associate Attending

BEN W. LICHTENSTEIN

Assistant Attending

OSCAR SUGAR

PSYCHIATRY

FRANCIS J. GERTY, Chief of Service

Attending Psychiatrists

FRANZ G. ALEXANDER
HUGH T. CARMICHAEL

Associate Attending Psychiatrists

BEULAH C. BOSSELMAN
L. WILLIAM EARLEY
JOEL S. HANDLER
LESTER MACLEAN
ROBERT G. MCMILLAN
LADISLAS J. MEDUNA
PAUL E. NIELSON
WILLIAM J. NOLAN
RUDOLPH NOVICK
IRENE C. SHERMAN
ISRAEL D. SONENTHAL
VIRGINIA TARLOW
JACK WEINBERG
DONOVAN G. WRIGHT

Assistant Attending Psychiatrists

HENRY H. FINEBERG
DAVID S. HARMAN
MARC HOLLENDER
SAMUEL LIEBMAN
BARBARA S. LIPTON
ALDEN RAISBECK
SAMUEL A. VICTOR

Illinois Eye and Ear Infirmary

OPHTHALMOLOGY

William F. Hughes, Jr., Ophthalmologist-in-Chief

Attending Ophthalmologists

Nathan H. Fox
Joseph S. Haas
Peter C. Kronfeld
Samuel J. Meyer
Glenway W. Nethercut
Daniel Snydacker
Paul Sternberg
Theodore N. Zekman

Associate Attending Ophthalmologists

Jack P. Cowen
Clarence E. Flack
David B. Maher
William Rosenberg
Milton M. Scheffler
Martin J. Urist

Assistant Attending Ophthalmologists

Albert C. Biegel
Carroll W. Browning
Fred G. Cox
Walter DeFrancois
George T. Fitzgerald
Meyer S. Kesert
G. Henry Mundt, Jr.
Maurice D. Pearlman
Manuel Stillerman
Stanley D. Swiontkowski
James Walsh
Henry S. Weiskopf
Edward M. Wones

Resident Ophthalmologist

William H. Middleton

Assistant Resident Ophthalmologists

Charles V. Barrett
Walter L. Bayard
William B. Brewster
Philip W. H. Chock
Glen Floyd
Wilbur C. Guest
Leonard Hahne
James M. Hall
Mac J. Hough
Edward T. Jones
Camille H. Killian
Arthur C. Kissling
Donald A. Loeb
James E. MacDonald
Edward A. Panter
Samuel E. Schall
Frederick E. Wade

OTOLARYNGOLOGY

Francis L. Lederer, Chief of Otolaryngological Services

Attending Otolaryngologists

Albert H. Andrews (Bronchoesophagology)
G. Kenneth Lewis (Maxillofacial Surgery)
Marvin J. Tamari

Associate Attending Otolaryngologists

Oscar J. Becker
Max H. Cutler
Robert Henner
Frank J. Piszkiewicz
Frederic J. Pollock
Leo Satz

Assistant Attending Otolaryngologists

Arthur Loewy
Richard E. Marcus
Douglas Mazique
Merton B. Skinner
Anthony Sukis

Resident Otolaryngologists

Emil Bergendahl
William Kucera
Charles Kudolla
Herbert Kwapiszeski
Joseph Orrico
Charles Sale
Jay H. Schmidt
Irving Sokolsky
Raphael Tarnopolsky
A. Joel Zeldin

Speech and Hearing Division

H. Koepp Baker, Director
Jean Utley, Associate Director
Richard E. Marcus, Attending Otolaryngologist
L. Jane Irvine, Audiologist
Catherine Fogle, Audiologist
Mary Law, Speech Therapist
Edward Elliott, Speech Therapist
Margaret Judiesch, Medical-Social Worker

THE COLLEGE OF MEDICINE

Medical and Dental College Laboratories Building

LOCATION, HISTORY, AND ADMINISTRATION

Location

The College of Medicine of the University of Illinois is located in the great medical center on the west side of Chicago. The work of the College, together with the related work in the Colleges of Dentistry and Pharmacy and the Graduate College, is centralized in the Medical and Dental College Laboratories Building facing on Polk, Wood, and Wolcott Streets. The campus, which is about three miles from the "Loop," or main business district of the city, can be reached conveniently by elevated train, street car, or automobile.

The University buildings contain the administrative offices of the College, the library, several museums, many classrooms and large laboratories for class work, numerous small laboratories for individual research, an autopsy amphitheater, a large and unusually well-equipped surgical amphitheater, auditorium, and the clinics and hospitals. The latter include the Research and Educational Hospitals, the Illinois Surgical Institute for Children, the Illinois Neuropsychiatric Institute, and the Institute for Juvenile Research, which are located on the campus. The Illinois Eye and Ear Infirmary is located near the campus. The Illinois Neuropsychiatric Institute, the Institute for Juvenile Research, and the Illinois Eye and Ear Infirmary are operated jointly by the University and the Department of Public Welfare. The Illini Union Building is at 715 South Wood Street.

History

The College of Medicine was originally an independent, proprietary institution before becoming affiliated with the University of Illinois. It opened October 14, 1881, as the College of Physicians and Surgeons of Chicago. It became affiliated with the University of Illinois under a lease in 1897, and in 1900 its name was changed to the College of Medicine of the University of Illinois. Not until 1913, however, did it become an integral part of the University. During most of its early history it was located north of Cook County Hospital in the area now forming the Convalescent Park. In 1931 it was moved to its present quarters in the west unit of the Medical and Dental College Laboratories Building. In 1941 Rush Medical College became affiliated and members of its staff were added to the clinical faculty of the College of Medicine. The occupational therapy curriculum was inaugurated in 1943.

Graduate work has been offered in the Chicago departments since 1915. The present work of the Graduate College is described in detail in a separate announcement.

Administration

Under the laws of the State of Illinois, the Board of Trustees of the University of Illinois is composed of eleven members, including the Governor and the Superintendent of Public Instruction who serve *ex officio,* nine members being elected by the people of the state for terms of six years.

Under the University Statutes adopted by the Board of Trustees, the affairs of the University are administered by the President, the Provost, the Vice-President, the Deans and Directors of the Colleges and Schools, and other administrative officers, most of whom are located on the main campus of the University at Urbana. The Chicago departments are organized in three Colleges — Medicine, Dentistry, and Pharmacy — each College having its own Dean, and all being under the general supervision of the Vice-President. The University

Senate is composed of members of the faculty who have full professorial rank and others who are in charge of departments, both at Urbana and in Chicago. In Chicago there is a Professorial Faculty composed of all members of the staff of professorial rank, together with a group of designated administrators.

Members of the faculty in each college cooperate with those in other colleges of the University, both in instruction and in research. Staff members of the basic science departments in the College of Medicine give instruction for students of dentistry, pharmacy, and occupational therapy.

CLINICS, DISPENSARIES, AND HOSPITALS

The clinics (outpatient departments) of the College of Medicine, located on the first floor of the Research and Educational Hospital and in the Neuropsychiatric Institute, are divided into twelve departments as follows: allergy, dermatology, medicine, obstetrics and gynecology, neurology, psychiatry, ophthalmology, orthopaedics, otolaryngology, pediatrics, surgery, and urology. The clinics have comfortable waiting rooms and extensive equipment, including clinical laboratories, electrocardiographic and physiotherapeutic units, and large X-ray facilities.

The Research and Educational Hospital, planned and built for teaching and investigation, with 400 beds, connects directly with the classrooms and laboratories of the College. Each year nearly 6,000 patients are admitted. The obstetrics department handles approximately 1,000 patients annually, seventy per cent in the hospital and the remainder at home. There are seven surgical operating rooms, all with facilities for students, including a large amphitheater, seating nearly 200, completely equipped for all types of surgery. There is also a well-equipped cancer clinic with a 400,000-volt therapeutic X-ray machine and an adequate supply of radium. The entire hospital is constantly in use for teaching, primarily of undergraduate medical students.

The Illinois Surgical Institute for Children, commonly called the Orthopaedic Institute, has beds for 130 patients. The Neuropsychiatric Institute, completed in 1940, has two separate divisions, one for neurological and one for psychiatric cases. Provision has been made for teaching in all sections, including outpatient service, wards, and a combination operating and lecture room. Extensive research facilities are also provided.

Under an agreement made in 1941, the Presbyterian Hospital, a neighboring institution with 450 beds, became affiliated with the University of Illinois. Members of its staff, who formerly were on the staff of Rush Medical College of the University of Chicago, were added to the faculty of the College of Medicine.

The administration of the Illinois Eye and Ear Dispensary, with 120 beds, has been transferred to the University of Illinois. The very extensive facilities thus made available are used primarily in specialty and graduate training but also add materially to the undergraduate program.

The Division of Services for Crippled Children is an independent unit of the University operating a state-wide program of medical, surgical, corrective, and other services and facilities for diagnosis, hospitalization, and aftercare for children who are crippled or who are suffering from conditions which lead to crippling. Its director is responsible to the Vice-President of the University. The Division conducts 120 outpatient diagnostic, orthopaedic, speech and hearing, and treatment clinics throughout the state each year and provides hospitalization

in a half dozen medical centers. It maintains close working relationships with the College of Medicine and the Research and Educational Hospitals, particularly the Surgical Institute for Children, where a considerable number of its patients are provided with care. It cooperates also with the State Department of Public Health, the State Department of Public Welfare, the State Superintendent of Public Instruction, the State Division of Vocational Rehabilitation, and the State Commission for Handicapped Children.

The Division's field program is carried out through a staff of orthopaedic nurses who are trained in public health and physical therapy. A special feature of the Division's work is its program of speech and hearing rehabilitation.

LIBRARY AND MUSEUMS

The library contains a comprehensive collection of standard and modern works on medical, dental, and pharmaceutical subjects, with over 900 current periodicals and more than 90,000 books on the shelves at present. It is used by professional men throughout the Chicago area, and its service to the University staff and student body is supplemented by loan arrangements with other libraries.

The College has two museums: the Anatomy Museum, including gross anatomy, histology, embryology, and neurology; and the Pathology Museum, including gross specimens for purposes of instruction of undergraduate and postgraduate students of medicine.

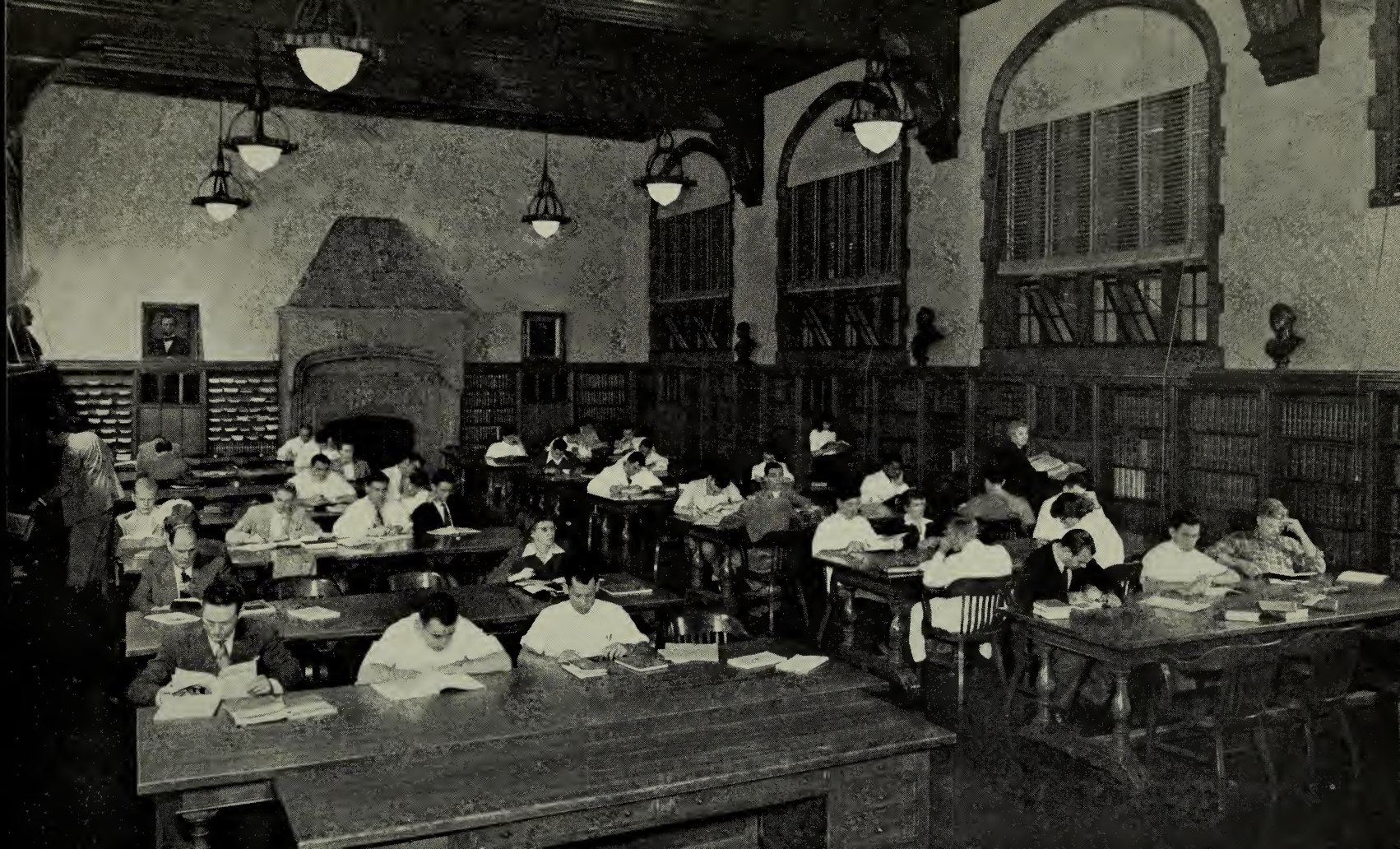
RECREATIONAL FACILITIES

The social and recreational center for students, alumni, and faculty members is the Chicago Illini Union Building, 715 South Wood Street. Its facilities include a cafeteria, grill, soda fountain, browsing room, music room, gymnasium, meeting rooms, and game rooms. Intramural sports under a trained director are encouraged, and facilities and equipment are available for softball, touch football, horseshoes, tennis, archery, wrestling, fencing, badminton, basketball, handball, and ping pong. Through special arrangements, the swimming pools of the nearby Y.M.C.A. and Y.W.C.A. are available to students. An annual golf tournament is held at a nearby golf course.

REQUIREMENTS FOR ADMISSION

General Regulations and Directions

Applications for admission to the College of Medicine should be addressed to the Examiner and Recorder, 1853 West Polk Street, Chicago 12. Official credentials, covering all collegiate and secondary school work done by the applicants, must be sent directly from each institution attended. Since space limitations make it necessary to restrict enrollment, applicants should have their credentials mailed to the Examiner and Recorder as early as possible. Applications will be received at any time within nine months before the date for registration. New classes enroll only in the fall, usually late in September. Veterans of World War II may attend under the provisions of Public Law 16 (Rehabilitation) or Public Law 346 (G.I. Bill of Rights). Under each act the government pays all school charges and provides all required books and equipment. The veteran should consult the Office of Veterans Administration to apply for the benefits of either act.



Veterans who make application will be given such special consideration as their service record may make advisable. Men who have been injured or specially decorated in service will be considered accordingly. A copy of discharge papers should accompany a veteran's application. Credentials accepted for admission become the property of the University and are kept permanently in the files.

Health Certificates. For each applicant whose previous record meets the requirements for admission, or who appears likely to meet them before the opening of the school year when he desires to enroll, the health officer at the last institution attended will be asked to furnish a certificate concerning the applicant's health, both physical and mental. When the health service of an institution can not supply the desired information, the applicant should have his family physician send in a report on his physical condition. If a student's application for admission is approved at a date so late as to make it impossible to obtain a health certificate before classes begin, he may be registered temporarily pending a satisfactory report from the Health Service.

Physical Examination. Each applicant who is accepted for admission must report to the University Health Service for a health examination prior to registration. Appointments for this examination are usually made in the month preceding registration. Each applicant is also urged to report to his family physician and dentist for a complete examination, including Schick and Dick reactions and smallpox vaccination. The applicant's eyes should also be examined and fitted with glasses if needed. A statement from the family physician regarding findings and immunization procedures should be forwarded to the Health Service of the University. (Students unable to show negative Schick and Dick reactions and recent successful smallpox vaccination must report for immunization before registration for the second year in the College of Medicine.)

Selection of Applicants. As the capacity of the College of Medicine is limited, selection of applicants is necessary. Selection is made by the Committee on Admissions. No student will be considered who is on scholastic probation or who has been dropped for poor scholarship from the last institution attended prior to seeking admission to the University of Illinois. Applicants who meet in full the course and grade-average requirements will be considered by the committee. In selecting applicants, the committee will take into consideration such factors as scholastic records, the schools and colleges previously attended, letters of recommendation, especially from teachers in the laboratory sciences, health records, aptitude tests, and such special examinations and other qualifications as may be determined by the committee. Other factors being equal, preferential consideration will be given to applicants who are residents of Illinois. A personal interview with the committee or their representative is required. Invitations to register will be sent to approved applicants.

Deposit. Each applicant who is assigned a place in any class in the College of Medicine is required to make a deposit of $15 within two weeks of the date of notification that he will be admitted. This deposit will be applied on fees assessed against him at the time of registration. Failure to pay this deposit within the specified time will subject the applicant to forfeiture of his place. No deposit will be returned unless the applicant notifies the Examiner and Recorder, at least thirty days before the time for registration, that he will not be able to enter. The Director of Admissions and Records is authorized to make refunds after that time when, in his judgment, the circumstances so justify.

Renewing Applications. An applicant who has been accepted for admission

Main Reading Room of the Quine Library

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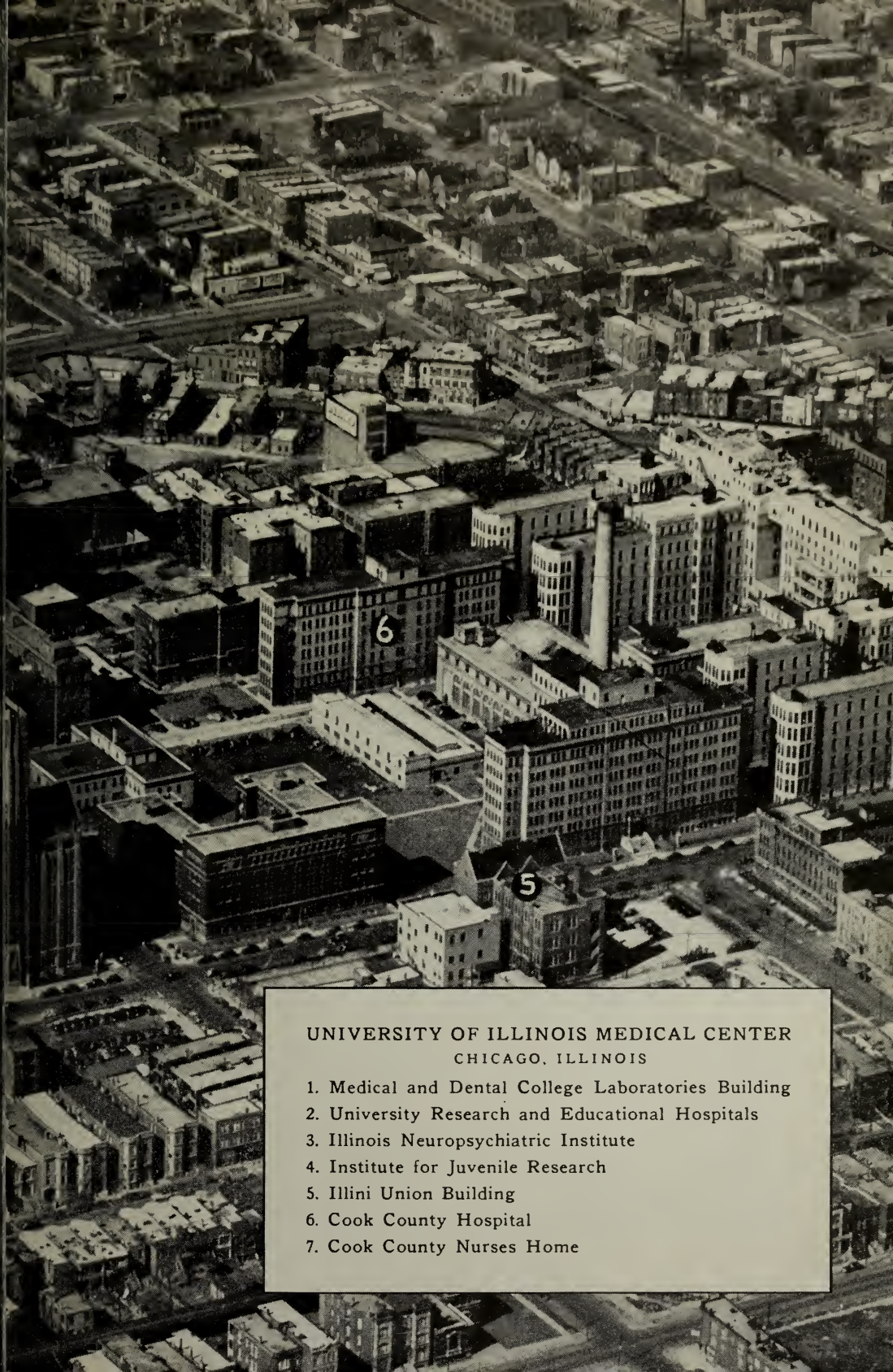

UNIVERSITY OF ILLINOIS MEDICAL CENTER

CHICAGO, ILLINOIS

1. Medical and Dental College Laboratories Building
2. University Research and Educational Hospitals
3. Illinois Neuropsychiatric Institute
4. Institute for Juvenile Research
5. Illini Union Building
6. Cook County Hospital
7. Cook County Nurses Home

but fails to enroll, and who wishes to enter in a subsequent year, must reapply for admission and must meet all the requirements in force at the time of the new application.

Special Requirements

Each applicant for admission to the College of Medicine, in addition to the general regulations and directions stated above, must have at least 88 semester hours of acceptable credit from a recognized college or university, exclusive of military training, hygiene, and physical education. The 88 semester hours must be distributed as follows:

	Hours
Chemistry (including, in addition to introductory courses, four hours of organic chemistry, three hours of quantitative analysis, and three hours of physical chemistry)	16
Physics (including laboratory work in mechanics, heat, sound, light, and electricity)	8
Biology (including laboratory courses in general and vertebrate zoology and general embryology)	10
English	6
Modern language (French, German, Spanish, etc.)	6
Social sciences (including electives from at least two of the following fields: anthropology, economics, history, philosophy, political science, psychology, and sociology)	14
Electives	28
Total	88

The course requirements as stated above must be met in full before admission will be granted. No student will be considered by the Admissions Committee who does not present evidence that he will complete all course requirements before July 1 of the year in which he expects to enroll. No conditions are permitted, but the Committee on Admissions may waive full compliance with the course specifications if the applicant possesses unusually high qualifications. It is the general policy of the College to encourage a broader education and courses of a cultural nature rather than excessive amounts of science. It is felt that the sciences required for admission are sufficient and that additional studies in science may well be left for the medical years, and the pre-medical years devoted to the social sciences and humanities.

Grade Requirement. Each applicant for admission to the College of Medicine, whether from the University of Illinois at Urbana or from another institution, must have attained a scholastic average of not less than 3.5, or its equivalent as determined by the University of Illinois for institutions using a different grading system.[1]

The Medical College Admission Test. All candidates are required to take the Medical College Admission Test recommended and approved by the Association of American Medical Colleges.

Preference to Illinois Residents. In considering applications for admission

[1] This rule is interpreted according to the number of passing grades. In a system of four passing grades, A, B, C, and D, the literal grades are translated into figures as follows: A = 5; B = 4; C = 3; D = 2; E (failure) = 1. Where there are more or less than four passing grades, the computation is adjusted to make the same level of accomplishment apply. The individual grades are multiplied by the respective number of semester hours which each represents, and the sum of these products is divided by the total number of semester hours taken. In the case of repeated courses, both grades earned will be counted in computing the average.

to the College of Medicine, the Committee on Admissions gives preference to candidates who are residents of Illinois. Nonresidents must present outstanding scholastic records to be considered. Places in the first-year class are assigned to applicants from Cook County and to applicants from Illinois outside of Cook County in the proportion which each area bears to the total population of the state according to the latest federal census; provided that, if at any time the quota from either area is not filled, the remaining places may be assigned to applicants from the other area. On this basis at the present time approximately fifty per cent of the places in the first-year class will be assigned to applicants from Cook County and fifty per cent to applicants who are residents of Illinois outside of Cook County.

Admission with Advanced Standing. It is possible to admit a limited number of transfer students to the third-year class in the College of Medicine. In considering applications, the Committee on Admissions will give preference to the candidates who present the strongest scholastic records. Except in exceptional cases, no student who is on probation or who has been dropped for any reason from a medical school will be considered for admission.

Admission to the Occupational Therapy Curriculum

The curriculum in occupational therapy, leading to the degree of Bachelor of Science in Occupational Therapy conferred by the College of Medicine, is offered to men and women who are able to meet the requirements as listed below.

The program consists of a minimum of six semesters in the College of Liberal Arts and Sciences in Urbana, and an equivalent of four semesters in the College of Medicine and affiliated hospitals. The work on the Urbana campus is divided into two levels. The first two semesters constitute the pre-professional curriculum, while the four additional semesters constitute the professional phase of the work at Urbana.

Pre-Professional Curriculum. An applicant for admission to this curriculum must meet the following requirements:

(1) He must be a graduate of an accredited high school and meet the general requirements for admission to the College of Liberal Arts and Sciences;

(2) He must rank in the upper fifty per cent of his (or her) high school graduating class, or pass satisfactorily examinations given by the Student Counseling Bureau at Urbana;

(3) He must be under thirty years of age;

(4) A health examination given by the University Health Officer must be passed satisfactorily;

(5) An interview is required with either the Associate Dean of the College of Liberal Arts and Sciences or the Director of the Curriculum in Occupational Therapy.

All of the above requirements must be certified to the Director of Admissions and Records before a permit to enter is issued, and should accordingly be arranged well in advance of the date the applicant plans to enter.

Professional Curriculum. The number of students admitted to the professional curriculum is limited by facilities in the College of Medicine. Selections for admission to this curriculum are made by the Committee on Admissions. Candidates are selected on the basis of scholastic record and such examinations and other evidence as the committee may require, and are notified of their

acceptance or rejection prior to the beginning of their third semester of registration at Urbana.

Permission to pursue that portion of the work which is given at the College of Medicine is dependent upon the achievement in previous university work. A university point average of 3.5 is a minimum requirement. Eligibility is determined by the Admissions Committee of the Curriculum in Occupational Therapy after a careful study is made of all pertinent evidence. Other factors being equal, preference will be given to candidates who are residents of Illinois.

Transfer Students. Transfer students must complete an interview as indicated in the general admission requirements, and they must also pass the physical examination. The results must be certified to the Director of Admissions and Records before a permit to enter is issued. Before being eligible for admission to the College of Medicine, students, in all but exceptional cases, must complete a minimum of two semesters in residence at Urbana. After admission by transfer, such students are governed by the same regulations applicable to other students in the curriculum.

REQUIREMENTS FOR GRADUATION

A candidate for any degree in the College of Medicine must meet the following general requirements: (1) show evidence of good moral character, (2) pay all indebtedness to the University, (3) obtain passing grades in all courses of the required curriculum, and (4) have grades of "C" or better in at least three-fourths of the total hours taken in the College and counted toward the degree.[1]

Degrees

In addition to the general requirements for graduation, the special requirements for each degree in the College of Medicine are as follows:

Bachelor of Science in Medicine. Awarded to students who have completed the first two years of work in the College of Medicine.

Doctor of Medicine. Awarded to students who have completed four years in attendance at an approved medical school, of which at least the last year must have been at the University of Illinois, and who have completed the prescribed curriculum and passed the comprehensive examinations required at the end of the fourth year.

Bachelor of Science in Occupational Therapy. Awarded on completion of a ten-semester curriculum, six semesters of which are taken on the Urbana campus and an equivalent of four on the Chicago campus and in affiliated hospitals. A minimum total of 180 quarter hours (120 semester hours) is required for graduation.

Honors

A student who complies with the requirements for graduation, and who attains in all work presented for the degree the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not

[1] Where it is necessary to translate percentages into literal grades, the following values are used: "A," 92 to 100%; "B," 85 to 91%; "C," 75 to 84%; "D," 70 to 74%; "E," below 70%, failure.

less than 4.75, graduation with high honors. The honors awarded are noted on the diploma and in the Commencement program.

LICENSE TO PRACTICE IN ENGLAND

The College of Medicine has long been recognized by the Royal College of Physicians and Surgeons in London. Graduates of the College of Medicine are exempt from the preliminary examinations and are admitted to the final examination for the license to practice medicine in England.

SPECIAL COURSES FOR PHYSICIANS

The College of Medicine offers a number of special advanced courses for physicians, which are open to graduates of approved medical schools. The fee for each full-time course is $150 a quarter, plus laboratory and clinic fees. Where registrations are accepted for one-half a course or less, the tuition fee is $100 a quarter. Members of the staff of the Research and Educational Hospitals and of Cook County Hospital and Morgue are permitted to attend the lectures in these courses without paying the tuition fee. These courses are not accepted by the Graduate College for advanced degrees, and no grades are given, but the University keeps a record of the registrations and of the time spent by each registrant. Descriptions of the courses appear in a special postgraduate section at the end of this catalog.

FEES AND EXPENSES

All fees are payable in full when the student registers. The Board of Trustees of the University reserves the right to change the fees at any time through publication in the annual announcements.

A schedule of fees for regular full-time students in the College of Medicine is listed below. One-third of each year's fees is payable on registration for each quarter.

	First Year		Second Year		Third Year		Fourth Year	
	Ill.	*Non-Ill.*	*Ill.*	*Non-Ill.*	*Ill.*	*Non-Ill.*	*Ill.*	*Non-Ill.*
Tuition Fee	$ 81.00	$162.00	$ 81.00	$162.00	$ 81.00	$162.00	$ 81.00	$162.00
Laboratory, Library, and Service Fees	108.00	135.00	108.00	135.00	135.00	174.00	135.00	174.00
Laboratory Materials Fee	69.00	111.00	69.00	111.00	90.00	120.00	90.00	120.00
Union Building Service Charge	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Total	$268.50	$418.50	$268.50	$418.50	$316.50	$466.50	$316.50	$466.50

Late Registration Fee. Former students who register after the regular registration days in any quarter pay a late registration fee of $5.

Special Examination Fee. For any special examination to remove a failure, the fee is $5.

Study-list Change Fee. A fee of $1 is charged for every study-list change slip issued later than the Saturday noon following the regular registration days. This rule applies also to registration for electives after the dates specified for regular registration.

Cook County Hospital Card. A fee of $5 for a County Hospital Card is required annually of all third-year and fourth-year medical students.

Outpatient Clerkship Fee. All fourth-year medical students pay an obstetrical outpatient clerkship fee of $15.

Transcript Fee. Each student who has paid all his University fees is entitled to receive, without charge, one transcript of his record. For each additional transcript the fee is 50 cents.

Fees for Part-time Students. All part-time undergraduate students in the College of Medicine pay the regular laboratory and building service fees as shown in the table for full-time students. Instead of the regular laboratory materials fees, a part-time student will be charged only for such materials as apply to the courses in which he is registered.

Residents of Illinois registered for partial programs of two hundred clock hours or less in a quarter in the College of Medicine pay tuition fees at the rate of $2.50 for twenty-five clock hours or fraction thereof. Non-Illinois students registered for partial programs pay double this rate. Undergraduate students taking more than two hundred clock hours in a quarter pay the full tuition fees.

Listener's Fee. For each 25 clock hours or fraction thereof, persons not connected with the University who are permitted to attend classes as listeners pay $10 if residents of Illinois, $20 if nonresidents. Permission to attend as listeners must be obtained from the Postgraduate Division, Office of the Dean, and listeners must register with the Examiner and Recorder.

Fees for Unclassified Students. Fees charged unclassified students are based on the amount of work taken.

Service Charge for Deferred Fees. In cases of necessity, students may arrange for deferment of fees by calling at the Business Office, Room 128, Medical and Dental College Laboratories Building. A service charge of ten per cent of the amount of fees deferred, but not to exceed $2 a quarter, will be charged for the privilege of deferring fees, and this charge must be paid on the day of registration. If deferred fees are paid in full within ten days after registration, the service charge will be refunded *except* that a minimum service charge of $1 will be retained by the University in all cases. The service charge, not less than one-third of the current quarter's fees, and all fees and charges from previous terms must be paid on the day of registration. Failure to meet payments of fees within the time limits will cancel at once the privilege of attending classes. Registration is not completed until fees are paid in full, and no credit will be recorded for class work completed unless all fees and other charges have been paid in full. Deferred payment of fees delays the completion of registration but extends the privilege of attending classes pending payment of fees in full as described above.

Refunds. If a student withdraws within ten days after the beginning of instruction, his total fees (except the $15 deposit) will be refunded. After ten days and before the expiration of one month, a refund of two-thirds of his total fees will be made. After one month and before the expiration of two months, a refund of one-third of these fees will be made. After the expiration of two months, no part of the fees will be refunded.

Fees for Occupational Therapy Students

Six Semesters at Urbana. During the first six semesters students in the Occupational Therapy Curriculum are registered in the College of Liberal Arts and Sciences and are subject to all fees applying to the Urbana departments of the

University. (For a complete list of fees, see the Undergraduate Study catalog of the University.) The general fees required of full-time students are as follows:

Tuition:	
Residents of Illinois	$40
Nonresidents	80
Laboratory, Library, and Supply Fee (Charges for materials used in handicraft courses which are borne by the student will vary according to the amount used.)	8
Deposit (to cover library fines, lost books, and other equipment; balance refundable)	5
Illini Union Service Charge	5
Hospital and Medical Service fee	5

The total fees for the six semesters is estimated at $370 for residents of Illinois and $610 for nonresidents.

Four Quarters in Chicago. During the four quarters of work taken in the College of Medicine, students in the Occupational Therapy Curriculum are subject to the general regulations concerning fees as stated above. However, instead of the fees listed for medical students in the table on page 59, students in the Occupational Therapy Curriculum pay fees each quarter as follows: tuition, $27 (nonresidents pay $54); laboratory and building service fee, $18 (nonresidents pay $22); Union Building service charge, $3.50. No fees are charged during the student's clinical experience at affiliated hospitals.

Expenses

From $90 to $125 a month may be regarded as adequate for the ordinary living expenses of a student in Chicago, exclusive of books, clothing, railroad fare, and miscellaneous needs. A ten-story Y.M.C.A. building located three blocks from the campus of the University affords a comfortable home for a limited number of students.

The expense for books varies between $50 and $100 a year. Each student is required to provide himself with a compound microscope, a haemocytometer, and an ophthalmoscope. Since it is difficult to purchase new microscopes, students are urged to arrange for used instruments if possible. Members of the faculty will check the condition of the microscopes upon request.

SCHOLARSHIPS, PRIZES, AND LOAN FUNDS

Scholarships

Berkelhamer Scholarship. A scholarship established by the family of Dr. Ralph C. Berkelhamer, graduate of the University of Illinois College of Medicine, who died as a prisoner of the Japanese in October, 1944. One hundred dollars is awarded yearly to a deserving and needy student.

General Assembly Scholarships. Each member of the General Assembly may make one nomination annually. Nominations must be filed with the President of the University on or before the opening day of the semester or term in which the scholarships are to become effective. Holders of these scholarships are exempt from the tuition fees but not from other fees.

Illinois Federation of Women's Clubs Scholarships. Established in 1944, this fund provides scholarships for students in the Occupational Therapy Curriculum. It is granted on the basis of financial need of the student. Application may be made to the Director of Admissions and Records, who is chairman of the committee which selects the candidates. Recommendations of the Dean of the College of Medicine will be considered in selecting candidates for the awards. Special consideration will be given deserving applicants who are recommended by the Illinois Federation of Women's Clubs.

Rea Scholarships. The annual income from a fund established in 1899 by the will of Dr. Robert Laughlin Rea is used for four scholarships, awarded by a committee of the faculty, to help pay the tuition fees of needy students in the College of Medicine. First-year students are not eligible.

State Military Scholarships. Acts of the General Assembly passed in 1919 and 1943 provide scholarships for veterans of World War I and World War II who, at the time of enlistment, were residents of Illinois or students in the University of Illinois. These scholarships exempt the holders from the tuition fees in any department of the University. In 1943, the General Assembly also established one scholarship in each county for descendants of veterans of World War I and one scholarship for descendants of veterans of World War II. These scholarships are awarded by competitive examination held on the first Saturday in June.

Williamson Memorial Scholarship. Members of the faculty and friends of the late Professor Charles Spencer Williamson, for many years Head of the Department of Medicine, have established an endowment fund, the income from which is used annually as a scholarship for a capable and needy student, either graduate or undergraduate. The award each year is made by the Dean of the College of Medicine and the Head of the Department of Medicine.

Yarros Scholarship. A fund established by the husband of the late Dr. Rachelle S. Yarros, who until her death was Professor of Social Hygiene. Varying amounts are available for deserving and needy students.

Prizes

Beaumont Memorial Prize. The late Dr. Frank Smithies, of Chicago, endowed an annual prize in memory of William Beaumont, the famous surgeon of the nineteenth century. The prize is awarded by a committee to the student or faculty member of the College of Medicine who submits the best original work on diseases of the alimentary tract.

Borden Undergraduate Research Award. The Borden Company Foundation, Inc., has established a $500 yearly prize for the student in the graduating class who during any year while enrolled in the College of Medicine as a candidate for the M.D. degree is judged to have performed the most meritorious piece of research. Originality and thoroughness of the research shall be of primary consideration.

Sigma Xi Prize. A prize of $25 is awarded annually by the Society of Sigma Xi for the best piece of scientific investigation on the part of any student in the College of Dentistry, the College of Medicine, or the Chicago departments of the Graduate College, who is without a salaried appointment by the Board of Trustees of the University.

Loan Funds

Several loan funds have been established for the benefit of worthy students who have satisfactorily completed at least one year of work in the University and are in need of financial aid in order to finish their courses. Information concerning these funds and the regulations governing loans may be obtained from the office of the Dean of the College.

Emergency Loan Fund. Emergency loans to students in the College of Medicine are made from this fund which was begun in 1933 by contributions from staff members. The fund has been augmented by gifts from various organizations and individuals.

Kellogg Loan Fund in Occupational Therapy. This fund, established in 1944 by a gift from the W. K. Kellogg Foundation, is for loans to students in occupational therapy.

LECTURESHIPS

Bacon Lectureship. In 1927, when Dr. Charles S. Bacon, on reaching the retiring age, was made Professor of Obstetrics, *Emeritus,* members of the faculty and friends of Dr. Bacon contributed the sum of $5,000 to found the Charles S. Bacon Lectureship in Obstetrics. The income from this fund is used to defray expenses of lectures given each year at the College of Medicine.

Davis Lectureship. The inauguration of the D. J. Davis Lectureship on Medical History was held on October 15, 1943. These lectures are maintained by interest on the funds subscribed by friends and associates of Dr. Davis, Professor of Pathology and Dean of the College of Medicine, *Emeritus,* who served the University for thirty years.

Gehrmann Lectureship. In 1924, in accordance with the will of Mrs. Albertina Gehrmann, widow of Dr. Adolph Gehrmann, for many years Professor of Bacteriology and Hygiene in the College of Medicine, the sum of $10,000 was given for the support of an annual lectureship in memory of Dr. Gehrmann.

Hedblom Lectureship. In 1938 the Phi Beta Pi medical fraternity contributed a fund to establish an annual lectureship in honor of Dr. Carl Hedblom, who until his death was Professor of Surgery and Head of the Department. Dr. Hedblom had an international reputation in the field of chest surgery.

Irish Lectureship. In 1946 the Eta Chapter of Alpha Kappa Kappa fraternity endowed an annual lectureship as a memorial to the late head of the Department of Pediatrics, Dr. Henry Irish.

Sachs Residency. In 1930 the Chicago Tuberculosis Institute established in the College of Medicine the Theodore B. Sachs Residency in the field of tuberculosis and allied diseases.

World War Memorial Lectureship. In commemoration of members of the faculty, alumni, and students who lost their lives during World War I, the faculty, alumni, and students of the College of Medicine have established a fund to support a Memorial Lectureship. At least one lecture is delivered annually by a prominent educator on a subject of general medical interest.

PLAN OF INSTRUCTION

The program of the student during his four years in the College of Medicine is arranged according to the following plan (summarized on page 103):

During the first two years the work is confined mainly to the fundamental sciences, and the time of the student is largely spent in the laboratory. During the first year he studies anatomy, histology, embryology, neurology, biochemistry, bacteriology, and physiology. In the second year the study of bacteriology and physiology is continued, and in addition the student takes up pharmacology, pathology, laboratory diagnosis, physical diagnosis, and hygiene. Throughout the first two years there is definite correlation between the clinical and the preclinical courses and a regular schedule of lectures by clinical instructors is followed in the courses in anatomy, physiology, and biological chemistry, to give an understanding of the practical applications.

During the third and fourth years the time is devoted to the various clinical branches. In the outpatient department the student examines the cases personally under the guidance of instructors and makes laboratory examinations for his own cases.

Throughout the third year emphasis is laid on the acquisition of a thorough familiarity with clinical problems. There are didactic courses in surgery, medicine, pediatrics, obstetrics, urology, orthopaedics, and otolaryngology. In addition the students are assigned as Clinical Clerks to the wards of Research and Educational, Cook County, Presbyterian, and St. Luke's Hospitals. During this period they spend six weeks in pediatrics, six weeks in obstetrics, and twelve weeks each in medicine and surgery, making intensive individual study of patients, observing and being instructed in the fundamentals of caring for patients.

In the fourth year the emphasis is on the practical application of the fundamental concepts acquired throughout the preceding three years. In the clinics and wards the student is given more responsibility although carefully supervised. The student has two six-week ward clerkships: obstetrics and gynecology, and pediatrics. There are two twelve-week clerkships, one in general surgery and one in internal medicine. During the obstetrics service, students attend deliveries within the hospital and accompany the outpatient resident for home deliveries. Each student has a two-week service at the Intensive Treatment Center observing the latest methods of handling venereal diseases. There is a one-week clerkship at the Municipal Contagious Hospital. The remaining time is spent in clinics and laboratories studying such topics as surgical anatomy and tropical medicine.

The examinations at the end of the second and fourth years are of a comprehensive nature and may be either written or oral, or both.

Students are prohibited from doing work that interferes in any way with the fulfillment of the requirements of the curriculum. Unofficial clinical work may not be substituted for the requirements of the curriculum.

Plan of Instruction in Occupational Therapy

Occupational therapy is the science or art of treating disease or injury by prescribed, motivated activity, to aid in recovery and rehabilitation. Graduation from an accredited course qualifies the therapist by examination for admission to the Registry maintained by the American Occupational Therapy Association. The course of study which was introduced at this University in 1943 meets the requirements of the profession's educational standards as determined by the

American Medical Association's Council on Medical Education and Hospitals. Upon successful completion of this course, which consists of ten college semesters of didactic instruction and clinical experience, the student receives a Bachelor of Science degree.

Though the curriculum is administered by the College of Medicine, the student registers in the College of Liberal Arts and Sciences on the Urbana campus for the first six semesters, where he devotes his time to the study of basic cultural subjects, biological sciences including anatomy, physiology, kinesiology, and psychology, and technical subjects including arts and crafts and recreation.

An equivalent of four semesters of the program is taken on the Chicago campus and in affiliated hospitals. Instruction in the clinical subjects is given by the members of the faculty of the College of Medicine; additional instruction in training is offered in the principles and practices of occupational therapy, the social sciences, and group work activities. During the three semesters spent on this campus the student averages an eight-hour day in the teaching units of the Research and Educational Hospitals and in the College, dividing his time between study, lecture periods, and clinical experience. Two months of the fourth semester are spent in a tuberculosis sanatorium where the student devotes his full time to clinical experience; the remaining two months are spent in a state mental hospital.

Because of the concentrated program, students are not permitted to engage in work that interferes in any way with the fulfillment of the requirements of the curriculum.

Occupational Therapy Curriculum

First Year (Urbana)

	Semester Hours
Rhetoric 101 and 102 or D.G.S. 111 and 112	6–8
Zoology 101 — General Zoology	5
Electives — Foreign Language, History, Literature	8–10
Therapeutic Techniques[1]	7
Hygiene 102 or 105 — Hygiene and Sanitation	2
Physical Education	2
Total	32–34

Second Year (Urbana)

Psychology 100 — Introduction to Psychology	4
Sociology 100 — Principles of Sociology	3
Occupational Therapy 100 — Occupational Therapy Orientation	2
Therapeutic Techniques[1]	15
Electives	4–6
Physical Education	2
Total	30–32

Third Year (Urbana)

Psychology 138 — Psychology Applied to Occupational Therapy	2
Psychology 216 — Child Psychology	3
Physiology 134 — Anatomy and Physiology	5
Physiology 235 — Kinesiology	3
Hygiene 216 — Health Factors and First Aid	2
Therapeutic Techniques[1]	12
Electives	3–5
Total	30–32

[1] Designated courses selected with consent of director of curriculum from art, home economics, physical education, and music.

Fourth and Fifth Years (Chicago)
(Sixteen calendar months)

	Quarter Credit
Pathology 324 — Pathology	1
Bacteriology 324 — Bacteriology	1
Clinical Lectures (Psychology 324, Neurology 324, Orthopaedics 324, Pediatrics 324, Medicine 324, Surgery 324)	10
Principles and Practice of Occupational Therapy (Occupational Therapy 375, 376, 377, 378)	11
Occupational Therapy 379 — Administration and Equipment	2
Occupational Therapy 380 — Community Services	4
Occupational Therapy 381 — Rehabilitation	3
Occupational Therapy 382 — Group Work and Activities	4
Occupational Therapy 383 — Application of Principles	9
Total	45

COURSES OF INSTRUCTION

Note: The following list of courses is in alphabetic order of departments. Names of staff members in each department are listed by rank and by seniority of appointment within each rank, except the head of the department who is listed first. The courses offered in each department are listed numerically. In the description of each course the letters F, W, Sp, and S indicate the Fall, Winter, Spring, and Summer quarters, and the periods of time required each week apply to the whole quarter unless the number of weeks is stated. Credit is calculated in clock hours.

ANATOMY

Otto F. Kampmeier, Ph.D., M.D., Professor of Anatomy and Head of the Department
Arnold A. Zimmermann, D. ès S., Professor of Anatomy
Gerhardt von Bonin, M.D., Professor of Anatomy
Arthur R. Cooper, Ph.D., M.D., Professor of Anatomy
Parke H. Simer, Ph.D., Professor of Anatomy
Adrien Verbrugghen, B.M., Ch.M., M.S., Clinical Professor of Neurological Surgery (Rush), assigned to Anatomy part time
Francis H. Straus, B.S., M.D., Clinical Associate Professor of Surgery (Rush), assigned to Anatomy part time
Yngve Joranson, A.B., B.S., M.D., Associate Professor of Anatomy, *Emeritus*
Robert H. Krehbiel, Ph.D., Associate Professor of Anatomy
Gustav L. Zechel, M.D., Associate Professor of Anatomy, assigned to Surgery part time
James C. Plagge, Ph.D., Associate Professor of Anatomy
Egbert H. Fell, A.B., M.D., Clinical Associate Professor of Surgery (Rush), assigned to Anatomy part time
William J. Furuta, Ph.D., Assistant Professor of Anatomy
Leon S. Shalla, B.S., M.D., Instructor in Anatomy
Harry J. Fournier, M.D., Instructor in Anatomy
Allan J. Zimring, B.S., M.D., Clinical Instructor in Anatomy
George D. Kaiser, M.S., M.D., Clinical Instructor in Anatomy
Arthur F. Cipolla, B.S., M.D., Clinical Instructor in Anatomy
Dale E. Hart, A.B., M.D., Clinical Instructor in Anatomy
Adeline R. White, B.S., M.D., Assistant in Anatomy, *Emerita*
H. W. Rottschafer, A.B., M.D., Clinical Assistant in Anatomy
Felix P. Mooney, M.D., Clinical Assistant in Anatomy

Required Courses — First Year

301-304. Human Anatomy. To insure correlation and unity in presentation of the subject matter, the major divisions, Gross Anatomy, Histology, Embryology, and Neuro-Anatomy, are merged into a single course extending continuously through

three quarters. Credit toward graduation is not allowed for any one quarter separately. The total time, 600 hours, which includes the time (approximately 20 hours) for oral, practical, and written mid-quarter and final examinations, is apportioned approximately as follows: Regional and Systematic Anatomy, 280 hours; Histology, 140 hours; Embryology (including histogenesis), 75 hours; Neuro-Anatomy (including sense organs), 80 hours; Röntgen Anatomy and introductory clinical demonstrations presented by selected members of clinical departments and designed to illustrate to the beginner the applications of anatomical knowledge in medical and surgical practice, 25 hours. Approximately three-fourths of the time of the course is given to laboratory work, and the remaining one-fourth to lectures, demonstrations, and quizzes. Professors KAMPMEIER, VON BONIN, COOPER, and SIMER, Associate Professors KREHBIEL and PLAGGE, Assistant Professor FURUTA; Professor HARVEY cooperating in Röntgen Anatomy.

Required Courses — Third Year

350. CLINICAL ANATOMY. Redissection of the body, stressing the topography and relations of the various regions and organs, as displayed by incisions, window dissections, and transections; intimate correlation of subject matter with clinical conditions and procedure. One four-hour period each week during one quarter. Given each quarter to one-third of the class. Associate Professor ZECHEL, Doctors SHALLA, FOURNIER, and KAISER. One-third of each class section meets at Rush Medical College. Professors VERBRUGGHEN and STRAUS, Associate Professor FELL.

Required Courses — Fourth Year

383. OBSTETRICAL AND GYNECOLOGICAL ANATOMY. (For content of course, see page 82). Professor FALLS, Dr. TETON.

Elective Courses

325. MICROSCOFICAL TECHNIC. Preparation of tissues for study; methods of maceration, decalcification, injection, corrosion, preservation, fixation, embedding, sectioning, staining, clearing, mounting, etc. One two-hour period each week; F, W, and Sp. Registration limited. Professor KAMPMEIER, Associate Professor KREHBIEL, and others.

326. PREPARATIONS FOR ANATOMICAL MUSEUM. The creation of special dissections, reconstructions, models, and demonstration specimens for the anatomical teaching collection, requiring skill, ingenuity, neatness, and accuracy in execution. Two two-hour periods each week during any one quarter. Limited to two or three qualified students. Professors KAMPMEIER and COOPER.

351. ANATOMY OF THE FETUS, NEWBORN AND CHILD. Dissection of fetuses and stillbirths with special consideration of growth changes and topography of the various organ systems. Introductory discussions of growth rates of major body dimensions, of surface area, and of formulae for age determination. Comparative studies on mounted fetal and post-natal skeletons; primary and secondary ossification centers. Functional considerations and emphasis of congenital malformations in all systems. One three-hour period each week during one quarter. Limited to ten students. Discussion periods are held as seminars, not more than ten hours through the course of 33 hours. Professor ZIMMERMANN.

377. COMPARATIVE NEUROLOGY. A comparative study of the morphology of the central nervous system, particularly of those animals in the phylogenetic line leading to man; a consideration also of related problems in comparative embryology, physiology, and psychology in their bearing on clinical neurology. Two one-hour periods each week; F. Professor VON BONIN.

378. PHYSICAL ANTHROPOLOGY. Phylogeny of human races; anthropometry of living and skeletal material; anthropogeography; racial physiology and pathology; growth of populations and racial distributions of modern man; social anthropology; racial psychology and eugenics. Two two-hour periods each week; F. Professor VON BONIN.

379. REVIEW DISSECTION. In this course opportunity is given for a redissection of the human body during the summer quarter. The course can not be taken for credit and is open only to students of the second to the fifth year, inclusive.

There is no formal instruction, but strict supervision is maintained to ensure the proper use of the material. Four students are assigned to one body. The total number of students taking the course is limited by the department. Every student wishing to enroll must apply personally to the head of the department before approval may be given. No student will be accepted unless he can give to his work adequate time to complete properly his dissections. The fees to be paid by the student for the course will vary from case to case according to the available material, its cost, and the amount of dissection for which he applies.

385. Seminar. Critical reviews of recent anatomical literature; preparation of bibliographies and of scientific papers for publication; presentation and discussion of the results of investigations.

BACTERIOLOGY

Milan V. Novak, Ph.D., M.D., D.Sc. (Honorary), Professor of Bacteriology and Head of the Department
Howard J. Shaughnessy, Ph.D., Professor of Bacteriology
Oscar Felsenfeld, M.D., Professorial Lecturer of Bacteriology
John E. Kempf, A.B., M.D., Associate Professor of Bacteriology
George F. Forster, Ph.D., Assistant Professor of Bacteriology
Joaquin Munoz, Ph.D., Assistant Professor of Bacteriology
Esther Meyer, Ph.G., Ph.D., Assistant Professor of Bacteriology
Edward E. Vicher, Ph.D., Assistant Professor of Bacteriology
Welton I. Taylor, Ph.D., Instructor in Bacteriology
Arthur V. Boand, Jr., M.S., Assistant in Bacteriology
Elizabeth Spaeth, M.S., Assistant in Bacteriology
Donald Z. Silver, M.S., Assistant in Bacteriology
Keith P. Berry, B.S., Assistant in Bacteriology
Elta W. Knoll, B.S., Assistant in Bacteriology (Rush)
Eugene W. Clark, A.B., Assistant in Bacteriology
Zora Dragich, M.S., Research Associate in Bacteriology
Alice H. Kempf, Ph.D., Research Associate in Bacteriology

Note: The course in bacteriology is offered during the third quarter of the first year and continued during the first quarter of the second year. Instruction is based upon a study of fundamental principles involving morphology, physiology, and distribution of bacteria and related organisms. Following a brief study of representative members of nonpathogenic and useful species, the student is introduced to harmful bacteria and the nature of the diseases which they produce together with immunological and serological considerations. Pathogenic fungi, protozoa, and viruses are included in this beginning course, as well as organisms responsible for tropical diseases. Special emphasis is placed on the ubiquitous nature of bacteria so that the student can more readily comprehend epidemiological problems and the host-parasite relationship in subsequent courses. A study of preventive medicine and hygiene follows in natural sequence. Practical aspects of sanitary science and the control of communicable diseases are emphasized as they are related to public health practice.

Required Courses — First Year

320. Bacteriology and Related Microbiology. A study of the general morphology, metabolism, serology, and pathogenity of the important microbial agents of communicable diseases. Action of germicidal agents, sulfonamides, penicillin, streptomycin, and other antibiotics. Factors in parasitic offense, and mechanisms of host defense. Detailed consideration of pathogenic cocci. Two lectures and four hours laboratory each week; Sp. Professor Novak and others.

Required Courses — Second Year

325. Bacteriology and Related Microbiology. Continuation of course 320. Detailed consideration of intestinal pathogens, water and milk sanitation, anaerobes, viruses, pathogenic fungi, protozoa, spirochaetes, rickettsia, and other microbial agents of disease. Serological methods and routine hospital laboratory proced-

ures applicable to diagnosis of communicable diseases. Three lectures and six hours laboratory each week; F. Associate Professor KEMPF, Assistant Professors MEYER, MUNOZ, VICHER, and others.

Required Courses — Occupational Therapy Students

324. GENERAL BACTERIOLOGY. General aspects of bacteriology and immunology including emphasis on preventable aspects of communicable diseases. Course designed entirely for the needs of occupational therapy students. Three lectures and three hours laboratory each week for four weeks; Sp. Assistant Professor VICHER, Dr. TAYLOR.

BIOLOGICAL CHEMISTRY

OTTO A. BESSEY, Ph.D., Professor of Biological Chemistry and Head of the Department
WILLIAM H. WELKER, Ph.D., D.Sc., Professor of Biological Chemistry, *Emeritus*
DOUGLAS A. MACFADYEN, A.M., M.D., Professor of Biological Chemistry (Rush)
OLAF BERGEIM, Ph.D., Professor of Biological Chemistry
R. GORDON GOULD, Ph.D., Associate Professor of Biological Chemistry (Rush)
SIDNEY P. COLOWICK, Ph.D., Associate Professor of Biological Chemistry
CLARENCE A. JOHNSON, Ph.D., Assistant Professor of Biological Chemistry
MAX K. HORWITT, Ph.D., Assistant Professor of Biological Chemistry
ELMER L. BECKER, M.D., Ph.D., Assistant Professor of Biological Chemistry (on leave of absence)
NATHAN C. KAPLAN, Ph.D., Assistant Professor of Biological Chemistry
GORDON S. STEWART, Ph.D., Assistant Professor of Biological Chemistry (Rush)
ALICE L. RIEDINGER, A.B., Research Associate in Biological Chemistry
RUTH H. LOVE, A.M., Research Assistant in Biological Chemistry

Required Courses — First Year

301. BIOLOGICAL CHEMISTRY. Chemistry of the constituents of tissues and body fluids, and current methods for their qualitative and quantitative determination; digestion, absorption, and intermediary metabolism of lipids, proteins, and carbohydrates in health and disease, and the role of hormones, vitamins, and enzymes in the regulation of these processes; the application of this knowledge to the problems of disease. Lectures, conferences, and laboratory. Ten hours each week; F and W. Members of the staff.

CLINICAL SCIENCE

ANDREW C. IVY, Ph.D., M.D., D.Sc., Distinguished Professor of Physiology and Head of the Department of Clinical Science
MORTON I. GROSSMAN, Ph.D., M.D., Associate Professor of Clinical Science
LEON L. GERSHBEIN, Ph.D., Assistant Professor of Biological Chemistry
LOUIS R. KRASNO, Ph.D., M.D., Assistant Professor of Clinical Science
DONALD F. MAGEE, A.M., B.M., B.Ch.(Oxon.), Research Associate in Clinical Science

Required Courses — Fourth Year

375. PHYSIOLOGY OF SYMPTOMS. This course provides a systematic analysis of the principal symptoms of disease or the subjective and objective manifestations of disturbed bodily functions. The prerequisites are anatomy, physiology, pharmacology, and pathology. One hour each week, F and Sp; two hours each week, W. Professor IVY, Associate Professor GROSSMAN.

CRIMINOLOGY AND LEGAL MEDICINE

SOPHIE W. S. SLOMAN, B.S., M.D., Assistant Professor of Criminology and Legal Medicine, and Acting Head of the Department
CHESTER W. DARROW, Ph.D., Clinical Associate Professor of Criminology

Thomas M. French, A.B., M.D., Clinical Associate Professor of Criminology and Legal Medicine
Roy G. Barrick, M.D., M.H.D., Clinical Assistant Professor of Criminology
Eugene I. Falstein, B.S., M.D., Clinical Assistant Professor of Criminology
William H. Haines, B.S., M.D., Clinical Assistant Professor of Criminology
Harold A. Greenberg, B.S., M.D., Clinical Assistant Professor of Criminology
Frances C. Perce, M.S., Clinical Associate in Criminology
Gustav F. Weinfeld, M.D., Clinical Associate in Criminology
Rodney H. Brandon, Lecturer in Public Welfare Administration
Lawrence J. Linck, M.S., Lecturer in Public Welfare Administration
Charlotte H. Altman, A.M., Clinical Instructor in Criminology

Note: The Department is concerned with three distinct fields of instruction. The first of these, Criminology, encompasses the study of the offender against the law, with special reference to the juvenile delinquent. Legal Medicine, a new division of the Department, has taken over the field of Medical Jurisprudence and Ethics. Medical Sociology continues to present the broad social implications of the general practice of medicine, with special reference to the social services which are a part of practice and to the role of the physician as a leader in the civic affairs of his community.

The Department concerns itself also with the clinical and administrative problems of juvenile and adult criminality, the legal implications of medicine and medical ethics, the sociological problems which surround medical cases and which are a part of the physician's responsibility to the family and to the community.

Required Courses — Third Year

350. Criminology. Study of the personality of offenders against the law, with special reference to the aspects of crime. One hour each week; W. Assistant Professors Haines and Barrick, and others.

Required Courses — Fourth Year

375. Legal Medicine. Same as Dentistry 375. Principles of law governing individual and professional rights and obligations; rights and obligations arising from the relationship of doctor (dentist) and patient and their enforcement in court; expert testimony; state medical and dental statutes and general law. One hour each week; W. James T. Mullaney (by invitation).

380. Medical Sociology. General outline of social services which form a part of the general practice of medicine. One hour each week; W. Assistant Professor Greenberg and others.

DERMATOLOGY

Francis E. Senear, M.S., M.D., Professor of Dermatology and Head of the Department
Oliver S. Ormsby, M.D., Clinical Professor of Dermatology (Rush), *Emeritus*
James H. Mitchell, B.S., M.D., Clinical Professor of Dermatology (Rush), *Emeritus*
Leonard F. Weber, M.D., Clinical Professor of Dermatology
Theodore Cornbleet, Ph.D., M.D., Clinical Professor of Dermatology
Marcus R. Caro, B.S., M.D., Clinical Professor of Dermatology
Michael H. Ebert, A.B., M.D., Clinical Professor of Dermatology (Rush)
Adolph Rostenberg, Jr., C.M., M.D., Associate Professor of Dermatology
Clark W. Finnerud, B.S., M.D., Clinical Associate Professor of Dermatology (Rush)
Minnie O. Perlstein, B.S., M.D., Clinical Associate Professor of Dermatology
Irene Neuhauser, B.S., M.D., Clinical Assistant Professor of Dermatology
Matthew J. Brunner, B.S., M.D., Assistant Professor of Dermatology
Harold Shellow, B.S., M.D., Clinical Assistant Professor of Dermatology
Paul K. Weichselbaum, M.S., M.D., Clinical Assistant Professor of Dermatology
Francis W. Hetreed, B.S., M.D., Clinical Associate in Dermatology (Rush)
Harvey C. Roll, B.S., M.D., Clinical Associate in Dermatology
Henry C. Schorr, B.S., M.D., Clinical Associate in Dermatology
Louise E. Tavs, A.B., M.D., Clinical Associate in Dermatology
Paul R. Griffith, A.B., M.D., Clinical Associate in Dermatology
Albert H. Slepyan, B.S., M.D., Clinical Associate in Dermatology

David V. Omens, M.D., Clinical Associate in Dermatology (Rush)
Paul P. Boswell, A.B., M.D., Clinical Instructor in Dermatology
Alexander M. Buchholz, M.S., M.D., Clinical Instructor in Dermatology
Richard M. Oliver, A.B., M.D., Clinical Instructor in Dermatology
Milton Robin, B.S., M.D., Clinical Instructor in Dermatology
Harold D. Omens, M.D., Clinical Instructor in Dermatology (Rush)
John B. Haeberlin, Jr., B.S., M.D., Clinical Instructor in Dermatology
Frederick J. Szymanski, M.D., Clinical Instructor in Dermatology
Zachary Felsher, M.D., Clinical Instructor in Dermatology (Rush)
Jack W. Graffin, M.D., Clinical Assistant in Dermatology (Rush)
Prudence P. Tolomeo, B.S., Research Assistant in Dermatology

Required Courses — Third Year

350. Didactic Lectures on Dermatology and Syphilis. Lectures, lantern slides, and demonstrations. One hour each week; continuous through F, W, and Sp. Professors Senear, Mitchell, Weber, Cornbleet, and Caro, Dr. Tavs.

351. Dispensary. Five two-hour periods each week for four weeks; F, W, and Sp. Professor Senear and others.

Required Courses — Fourth Year

375. Clinic. Case demonstrations with patients from Research and Educational and Cook County Hospitals. One hour each week; F. Professors Senear and Cornbleet.

MEDICAL ILLUSTRATION

Thomas S. Jones, B.F.A., Professor of Medical and Dental Illustration and Head of the Illustration Studios
Ruth B. Coleman, A.B., Assistant Professor of Medical Illustration
Carl T. Linden, Instructor in Medical Illustration
Hooker Goodwin, B.F.A., Instructor in Medical Illustration

Elective Courses — Third and Fourth Years

350. Medical Illustration. Beginners' course designed for medical students and graduates who desire to improve their ability to sketch and make graphic records in their practice and research. The work consists in drawing medical subjects of various kinds from life, making of graphs and charts, lettering, perspective and use of crayon, pen and ink, wash and water color. Principles of medical photography and making of lantern slides, etc. Two two-hour periods each week; F, W, and S. Limited to five students. Professor Jones.

Special Courses for Non-Medical Students

100. Medical Illustration. A course of twenty-two months in illustration as applied to the broad field of medical education, with students working in the Illustration Studios with the staff artists and in the Department of Anatomy, is offered to candidates presenting evidence of thorough training in art and a sound scholastic record, including two or more years of college with emphasis on work in pre-medical subjects. The first year of study includes: (a) a course in anatomy taken with medical students consisting of lectures and laboratory work in embryology, histology, neurology, and gross anatomy, including the dissection of an entire human body; (b) drawing in detail of dissections, bones, and organs of the body prepared in conjunction with anatomy studies; (c) special consideration to accurate observation and interpretation of technics and media of illustration such as wash drawing, crayon, pen and ink, and water colors; (d) lettering and the preparation of charts and graphs as applied to medical subjects. The second year includes practical applications of illustration in the widest sense to publishing and medical education. Emphasis is placed on the theories of visual instruction and the growing responsibility of the illustrator for the improvement of medical education through all types of graphic media by means of (a) illustrative proj-

ects in anatomy, surgery, and pathology, working from autopsy, operating room, and dissection material; (b) opportunity to participate in the planning, design, and preparation of lay and scientific exhibit material; (c) adaptation of various materials to three-dimensional representation of scientific subjects. Technics for working clays, waxes, plaster, plastics, moulages, wood, and metals are among those studied. A special course in pathology is included in the second year. For those who wish to learn medical photography, opportunity for study will be arranged in the photographic studio. Except in unusual cases application for admission must be made in person to the head of the department. The number of students which may be accepted in any one year is limited to five. The first half-year is a probation period for all students. Hours: 9:00 a.m. to 5:00 p.m. Monday to Friday inclusive. Fee for each quarter: residents, $72.83; nonresidents, $81.83.

MEDICINE

Robert W. Keeton, M.S., M.D., Professor of Medicine and Head of the Department
John B. Youmans, M.S., M.D., Professor of Medicine and Dean of the College of Medicine
James B. Herrick, A.M., D.Sc., LL.D., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
Frederick Tice, M.D., Clinical Professor of Medicine, *Emeritus*
Ralph C. Brown, B.S., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
Ernest E. Irons, Ph.D., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
Wilber E. Post, Ph.B., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
Sidney Strauss, A.B., M.D., Clinical Professor of Medicine, *Emeritus*
Rollin T. Woodyatt, B.S., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
Edmund F. Foley, B.S., M.D., Professor of Medicine
LeRoy H. Sloan, B.S., M.D., Clinical Professor of Medicine
Lee C. Gatewood, A.M., M.D., Clinical Professor of Medicine (Rush)
Ellis B. Freilich, M.D., Clinical Professor of Medicine
Frank B. Kelly, B.S., M.D., Clinical Professor of Medicine (Rush)
Jacob Meyer, M.S., M.D., Clinical Professor of Medicine
William A. Thomas, Ph.B., M.D., Clinical Professor of Medicine (Rush)
Willard O. Thompson, A.B., M.D., Clinical Professor of Medicine
Aaron Arkin, Ph.D., M.D., Clinical Professor of Medicine (Rush)
James B. Eyerly, B.S., M.D., Clinical Professor of Medicine (Rush)
Leo K. Campbell, B.S., M.D., Clinical Professor of Medicine (Rush)
William G. Hibbs, B.S., M.D., D.Sc., Clinical Professor of Medicine (Rush)
S. Howard Armstrong, Jr., A.B., M.D., Professor of Medicine (Rush)
Victor Guillemin, Jr., Ph.D., Professor of Biophysics and Biophysicist in the Physical Environment Unit
Ernest S. Moore, Ph.B., M.D., Associate Professor of Medicine, *Emeritus*
Frank D. Chauvet, M.D., Clinical Associate Professor of Medicine, *Emeritus*
Benjamin Goldberg, M.D., Clinical Associate Professor of Medicine, *Emeritus*
Isadore Pilot, B.S., M.D., Associate Professor of Medicine
Carroll L. Birch, M.S., M.D., Associate Professor of Medicine
Ford K. Hick, Ph.D., M.D., Associate Professor of Medicine
Michael H. Streicher, M.S., M.D., Associate Professor of Medicine
Samuel Perlstein, M.D., Associate Professor of Medicine
Robert M. Kark, A.B., M.R.C.S., L.R.C.P., M.R.C.P., D.C.H., Associate Professor of Medicine
Aaron B. Kendrick, Ph.D., Associate Professor of Medicine
Louis R. Limarzi, M.S., M.D., Associate Professor of Medicine
Frederick C. Lendrum, Ph.D., M.D., Associate Professor of Medicine
Frank B. Lusk, A.M., M.D., Clinical Associate Professor of Medicine
Francis L. Foran, M.S., M.D., Clinical Associate Professor of Medicine (Rush)
Evans W. Pernokis, M.D., Clinical Associate Professor of Medicine (Rush)
Sidney A. Portis, B.S., M.D., Clinical Associate Professor of Medicine (Rush)
Howard M. Sheaff, Ph.D., M.D., Clinical Associate Professor of Medicine (Rush)
Eugene F. Traut, B.S., M.D., Clinical Associate Professor of Medicine (Rush)

Ralph W. Trimmer, M.D., Clinical Associate Professor of Medicine (Rush)
Isidore A. Rabens, M.S., M.D., Clinical Associate Professor of Medicine
Oscar B. Ragins, M.S., M.D., Clinical Associate Professor of Medicine
Ben Z. Rappaport, M.S., M.D., Clinical Associate Professor of Medicine
Albert VanderKloot, M.D., Clinical Associate Professor of Medicine
Louis Feldman, B.S., M.D., Clinical Associate Professor of Medicine
Clayton J. Lundy, M.S., M.D., Clinical Associate Professor of Medicine (Rush)
Robert C. Berson, A.B., M.D., Assistant Professor of Medicine (on leave of absence)
Franklin S. Wilson, Ph.G., M.D., Assistant Professor of Medicine (Rush), *Emeritus*
Frederick O. Fredrickson, M.D., Assistant Professor of Medicine (Rush), *Emeritus*
Frederick Steigmann, M.S., M.D., Assistant Professor of Medicine
Max M. Montgomery, M.S., M.D., Assistant Professor of Medicine
Nathaniel Glickman, M.S., Assistant Professor of Medicine and Research Physiologist
Max Samter, M.S., M.D., Assistant Professor of Medicine
Samuel G. Taylor, III, A.B., M.D., Assistant Professor of Medicine
Duane W. Propst, A.B., B.S., M.D., Clinical Assistant Professor of Medicine (on leave of absence)
Hugo O. Deuss, B.S., M.D., Clinical Assistant Professor of Medicine
J. Bailey Carter, M.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Morris Fishbein, B.S., M.D., Phar.D., Clinical Assistant Professor of Medicine (Rush)
Earle Gray, B.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Benjamin H. Hilkevitch, M.D., Clinical Assistant Professor of Medicine (Rush)
Alva A. Knight, B.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Meyer R. Lichtenstein, B.S., M.D., Clinical Assistant Professor of Medicine
Elizabeth K. Straus, A.B., M.D., Clinical Assistant Professor of Medicine (Rush)
Willard L. Wood, M.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Lewis W. Woodruff, B.S., M.D., Clinical Assistant Professor of Medicine (Rush)
Leo E. Amtman, B.S., M.D., Clinical Assistant Professor of Medicine
William S. Boikan, M.S., M.D., Clinical Assistant Professor of Medicine
Stuyvesant Butler, Ph.B., M.D., Clinical Assistant Professor of Medicine (Rush)
John A. Gardiner, A.M., B.M., Clinical Assistant Professor of Medicine (Rush)
Samuel H. Rosenblum, B.S., M.D., Clinical Assistant Professor of Medicine
Mitchell A. Spellberg, M.S., M.D., Clinical Assistant Professor of Medicine
David I. Abramson, M.D., Clinical Assistant Professor of Medicine
Nathaniel O. Calloway, Ph.D., M.D., Clinical Assistant Professor of Medicine
Robert M. Jones, A.B., M.D., Clinical Assistant Professor of Medicine
J. Charles McMillan, Jr., B.S., M.D., Clinical Assistant Professor of Medicine
George W. Stuppy, Ph.D., M.D., Clinical Assistant Professor of Medicine (Rush)
Melvin L. Afremow, M.S., M.D., Clinical Assistant Professor of Medicine
Evan M. Barton, A.B., M.D., Clinical Assistant Professor of Medicine (Rush)
Arthur Bernstein, B.S., M.D., Clinical Assistant Professor of Medicine
Jacob W. Fischer, B.S., M.D., Clinical Assistant Professor of Medicine
Robert O. Levitt, A.B., M.D., Clinical Assistant Professor of Medicine
Herman A. Levy, B.S., M.D., Assistant Professor of Medicine
Milton M. Mosko, B.S., M.D., Clinical Assistant Professor of Medicine
Jerome T. Paul, M.S., M.D., Assistant Professor of Medicine
Norman B. Roberg, A.B., M.D., Clinical Assistant Professor of Medicine
James A. Campbell, A.B., M.D., Assistant Professor of Medicine (Rush)
Irving E. Steck, M.S., M.D., Clinical Assistant Professor of Medicine
Benjamin Pearlman, B.S., M.D., Clinical Assistant Professor of Medicine
Moses Goldwasser, M.D., Associate in Medicine and Consultant to Illinois Eye and Ear Infirmary
Thomas A. Baird, B.S., M.D., Clinical Associate in Medicine (Rush)
Joseph R. Bennett, A.B., M.D., Clinical Associate in Medicine (Rush)
Herbert C. Breuhaus, B.S., M.D., Clinical Associate in Medicine (Rush)
Duane D. Darling, B.S., M.D., Associate in Medicine
Harold M. Hoover, B.S., M.D., Clinical Associate in Medicine
Morris A. Kaplan, M.S., M.D., Clinical Associate in Medicine
William J. Kirby, B.S., M.D., Clinical Associate in Medicine (Rush)
Maurice Simkin, B.S., M.D., Clinical Associate in Medicine (Rush)
William Simkin, B.S., M.D., Clinical Associate in Medicine (Rush)

George C. Turner, B.S., M.D., Clinical Associate in Medicine (Rush)
Henry Ricewasser, A.B., B.S., M.D., Clinical Associate in Medicine
J. Lisle Williams, A.M., M.D., Clinical Associate in Medicine
Max Berg, Ph.D., M.D., Clinical Associate in Medicine
George V. Byfield, M.S., M.D., Clinical Associate in Medicine
William A. Hutchison, M.D., Clinical Associate in Medicine
Alfred H. Rosenblum, B.S., M.D., Clinical Associate in Medicine
Israel I. Ritter, B.S., M.D., Clinical Associate in Medicine
Louis Edidin, B.S., M.D., Clinical Associate in Medicine
Eugene J. Ranke, B.S., M.D., Clinical Associate in Medicine
Paul L. Bedinger, M.S., M.D., Clinical Associate in Medicine
William P. Swisher, B.S., M.D., Clinical Associate in Medicine
Osmund H. Akre, A.B., M.D., Clinical Associate in Medicine (Rush)
Max M. Bernstein, B.S., M.D., Clinical Associate in Medicine
R. Gordon Brown, A.B., M.D., Clinical Associate in Medicine (Rush)
Samuel E. Ditkowsky, B.S., M.D., Clinical Associate in Medicine
Raymond M. Galt, A.B., M.D., Clinical Associate in Medicine
Eugene Grosz, M.D., Clinical Associate in Medicine
Aaron Gunther, B.S., M.D., Clinical Associate in Medicine
Samuel Hyman, B.S., M.D., Clinical Associate in Medicine
Edwin N. Irons, B.S., M.D., Clinical Associate in Medicine (Rush)
Janet R. Kinney, B.S., M.D., Clinical Associate in Medicine
Jerome S. Mehlman, A.B., M.D., Clinical Associate in Medicine
John R. Necheles, M.D., Clinical Associate in Medicine
Bertram G. Nelson, B.S., M.D., Clinical Associate in Medicine (Rush)
Oglesby Paul, A.B., M.D., Clinical Associate in Medicine (Rush)
Lawrence Perlman, B.S., M.D., Clinical Associate in Medicine
Paul Ravenna, M.D., Clinical Associate in Medicine
Armin F. Schick, B.S., M.D., Clinical Associate in Medicine (Rush)
Alexander Wolf, B.S., M.D., Clinical Associate in Medicine
Stanley H. Gumbiner, A.B., M.D., Instructor in Medicine
Stanley E. Telser, A.B., M.D., Clinical Instructor in Medicine
Irwin R. Callen, M.S., M.D., Instructor in Medicine
Elva A. Hiscock, M.S., Instructor in Nutrition
Josephine M. Dyniewicz, Ph.G., Ph.C., Instructor in Medicine and Research Chemist
Graham A. Vance, B.S., M.D., Instructor in Medicine
Julius A. Gurvey, B.S., M.D., Clinical Instructor in Medicine
William S. Timblin, B.S., M.D., Clinical Instructor in Medicine
Emanuel J. Feinhandler, B.S., M.D., Clinical Instructor in Medicine
Frank A. DeTrana, M.D., Clinical Instructor in Medicine
Rudolph J. Hennemeyer, M.D., Clinical Instructor in Medicine (Rush)
C. Helge M. Janson, B.S., M.D., Clinical Instructor in Medicine (Rush)
John Post, B.S., M.D., Clinical Instructor in Medicine (Rush)
John D. Singer, B.S., M.D., Clinical Instructor in Medicine
Harry N. Petrakos, B.S., M.D., Clinical Instructor in Medicine
William R. Sladek, B.S., M.D., Clinical Instructor in Medicine
Michael Zeller, M.D., Clinical Instructor in Medicine
Ernst Cronheim, M.D., Clinical Instructor in Medicine
Roland L. Kesler, A.B., M.D., Clinical Instructor in Medicine (Rush)
Carl F. Baumeister, B.S., M.D., Instructor in Medicine
H. Paul Carstens, M.S., M.D., Clinical Instructor in Medicine
Harvey Horwitz, B.S., M.D., Clinical Instructor in Medicine
Albert R. Rosanova, B.S., M.D., Clinical Instructor in Medicine
George J. Brebis, M.S., M.D., Instructor in Medicine
Helen L. Rhetta, A.B., M.D., Clinical Instructor in Medicine
Harry R. Schwartz, B.S., M.D., Clinical Instructor in Medicine
Irvin S. Siglin, B.S., M.D., Instructor in Medicine
Peter J. Beinar, B.S., M.D., Clinical Instructor in Medicine
John T. Gregorio, M.D., Clinical Instructor in Medicine
Eslie Hartman, A.B., M.D., Clinical Instructor in Medicine
Theodore Z. Polley, B.S., M.D., Clinical Instructor in Medicine
Harry J. Yellen, B.S., M.D., Clinical Instructor in Medicine

Howard J. LeVine, B.S., M.D., Clinical Instructor in Medicine
Anthony R. Sapienza, B.S., M.D., Clinical Instructor in Medicine
Marvin M. Dickey, B.S., M.D., Clinical Instructor in Medicine (Rush)
Norman A. Wien, B.S., M.D., Clinical Instructor in Medicine
Frederick Sargent, III, B.S., M.D., Clinical Instructor in Medicine
Willard G. DeYoung, B.S., M.D., Clinical Instructor in Medicine (Rush)
Marvin W. Aren, B.S., M.D., Clinical Instructor in Medicine
Robert D. Berke, M.D., Clinical Instructor in Medicine
Gaetano A. Bica, B.S., M.D., Clinical Instructor in Medicine
Norman J. Ehrlich, M.S., M.D., Clinical Instructor in Medicine
Don L. Fisher, B.S., M.D., Clinical Instructor in Medicine (Rush)[1]
Sanford A. Franzblau, M.S., M.D., Clinical Instructor in Medicine
Barbara J. Hull, A.B., M.D., Clinical Instructor in Medicine
Josseph H. Jesser, B.S., M.D., Clinical Instructor in Medicine
Warren C. Lewis, B.S., M.D., Clinical Instructor in Medicine
Jerome J. Lubin, B.S., M.D., Clinical Instructor in Medicine
Ralph A. Scala, LL.B., M.D., Clinical Instructor in Medicine
Louis A. Selverstone, A.B., M.D., Instructor in Medicine (Rush)
Frank R. Gondek, B.S., M.D., Instructor in Medicine
John B. Yonan, B.S., M.D., Clinical Assistant in Medicine
William E. Bretz, B.S., M.D., Clinical Assistant in Medicine (Rush)
George P. Ballard, B.S., M.D., Clinical Assistant in Medicine
Henrietta S. Hartley, M.D., Clinical Assistant in Medicine
Mark S. Beaubien, B.S., M.D., Clinical Assistant in Medicine (Rush)[1]
Melvin M. Chertack, M.S., M.D., Clinical Assistant in Medicine[2]
Charles A. Gianasi, A.B., M.D., Clinical Assistant in Medicine[2]
Clifford H. Kalb, M.D., Clinical Assistant in Medicine
Paul A. Meredith, A.B., M.D., Clinical Assistant in Medicine[2]
Abraham I. Rosenblum, B.S., M.D., Clinical Assistant in Medicine
Ira L. Schnaer, M.D., Clinical Assistant in Medicine (Rush)
Irving Slott, B.S., M.D., Clinical Assistant in Medicine
Eugene Weiss, M.S., M.D., Clinical Assistant in Medicine
Charles W. Young, B.S., M.D., Clinical Assistant in Medicine
Daniel L. Donovan, A.B., M.D., Clinical Assistant in Medicine (Rush)[1]
Peteer J. Farago, A.B., M.D., Clinical Assistant in Medicine (Rush)[1]
Frederick W. Hiss, A.B., M.D., Clinical Assistant in Medicine (Rush)[1]
Donald F. McBride, B.S., M.D., Clinical Assistant in Medicine (Rush)[1]
Donald E. O'Brien, A.B., M.D., Clinical Assistant in Medicine (Rush)
Martha Hill Kofoed, B.S., Research Assistant in Medicine
Tohru Inouye, A.B., Research Assistant in Medicine
Effie O. Ellis, M.S., Research Assistant in Medicine
Luke J. Grimelli, M.D., Clinical Assistant in Medicine
Russell A. Forrest, M.D., Clinical Assistant in Medicine
Jean C. Shaw, B.S., Research Assistant in Medicine
Lindsay M. Baskett, B.S., M.D., Clinical Assistant in Medicine (Rush)[1]
William R. Best, B.S., M.D., Clinical Assistant in Medicine[2]
Robert A. Chapman, A.B., M.D., Clinical Assistant in Medicine
Geoerge A. deJong, M.D., Clinical Assistant in Medicine (Rush)[1]
F. Richard Hall, A.B., M.D., Clinical Assistant in Medicine (Rush)
Edward L. Jackson, B.S., M.D., Clinical Assistant in Medicine
Clement G. Martin, M.S., M.D., Clinical Assistant in Medicine (Rush)[1]
Charles D. McGrath, A.B., M.D., Clinical Assistant in Medicine (Rush)[1]
Roger S. Morris, M.D., Clinical Assistant in Medicine (Rush)
Leo F. Narut, B.S., M.D., Clinical Assistant in Medicine
Warren C. Pilling, B.S., M.D., Clinical Assistant in Medicine (Rush)[1]
Mary Ray, B.S., M.D., Clinical Assistant in Medicine (Rush)
Joseph G. Schupp, A.B., M.D., Clinical Assistant in Medicine (Rush)[1]
Paul E. Teschan, M.S., M.D., Clinical Assistant in Medicine (Rush)[1]
C. B. Thrift, B.S., M.D., Clinical Assistant in Medicine (Rush)[1]
Louis J. Vorhaus, M.D., Clinical Assistant in Medicine[2]

[1] Also Resident at the Presbyterian Hospital.
[2] Also Resident at the Research and Educational Hospitals.

Bernhard J. Weinberg, B.S., M.D., Clinical Assistant in Medicine
Robert G. Weiner, B.S., M.D., Clinical Assistant in Medicine
Simon Zivin, M.D., Clinical Assistant in Medicine
Albin M. Brixey, Jr., A.B., B.S., M.D., Clinical Assistant in Medicine
Joseph J. Frankel, B.S., M.D., Clinical Assistant in Medicine
James C. Havranek, B.S., M.D., Clinical Assistant in Medicine
Samuel Klein, B.S., M.D., Clinical Assistant in Medicine
John J. Manning, B.S., M.D., Clinical Assistant in Medicine
Joseph M. Robbins, B.S., M.D., Clinical Assistant in Medicine
Betty Lou Duke, B.S., Research Assistant in Medicine
Basil Anastopoulos, M.D., Research Assistant in Medicine
Frederick Stenn, M.S., M.D., Lecturer in History of Medicine

Required Courses — Second Year

325. Physical Diagnosis. Instruction in the physical examination of the patient. Normal findings emphasized, to be defined by patients with abnormal findings. Small sections and a large clinic and demonstration period, three hours a week; continuous through F, W, and Sp. Instructors in Surgery, Ophthalmology, and Gynecology cooperate with the Department of Medicine. An additional two hours a week during Spring quarter is devoted by Department of Psychiatry to instruction in interviewing of patients. Professor Freilich, Associate Professors Kark, Lendrum, and Prohaska, Assistant Professors Abramson, Amtman, A. Bernstein, Montgomery, Ragins, and Samter, Doctors Bedinger, Brebis, Franzblau, Galt, Goldwasser, Hull, Hyman, Polley, and Ranke.
326. Clinic. Clinic and lectures demonstrating the application of physiological and biochemical subject matter to patients. Sp. Professor Keeton, Assistant Professor Montgomery.

Required Courses — Third Year

350. Systematic Study of Important Diseases. Lecture and seminar. One hour each week; continuous through F, W, and Sp. Not offered in 1949-1950. Associate Professor VanderKloot, Doctors Baumeister, Darling, DeTrana, Goldwasser, Pearlman, Ranke, and Rosanova.
351. Clinic. Selected topics. Research and Educational Hospitals. One hour each week; continuous through F, W, and Sp. Professors Keeton, Sloan, and Thompson, Associate Professors Portis and Streicher.
352. Clinic. Selected topics. Cook County Hospital. One hour each week; continuous through F, W, and Sp. Professor Kelly, Associate Professors Pilot, Ragins, and Traut, Assistant Professors A. Bernstein and Rosenblum.
353. Clinic-Allergy. Research and Educational Hospitals. One hour each week; W. Assistant Professor Samter.
354. Bedside Teaching Clerkship. History taking and physical diagnosis, cardiology and nutrition. Cook County Hospital, Research and Educational Hospitals, and Outpatient Department of Presbyterian Hospital. Students are directed in their work by the associates and attending men of these hospitals. At the close of the morning the students gather in small groups and present before these groups cases they have studied. F, W, and Sp. Professors Armstrong, R. C. Brown, L. K. Campbell, Eyerly, Gatewood, Hibbs, E. E. Irons, Kelly, W. E. Post, Thomas, and Woodyatt, Associate Professors Feldman, Lundy, Pernokis, Sheaff, Traut, and Trimmer, Assistant Professors Barton, Butler, J. A. Campbell, Fischer, Gray, Knight, Stuppy, Wood, and Woodruff, Doctors Akre, M. M. Bernstein, Breuhaus, R. G. Brown, Galt, Hutchison, E. N. Irons, Kinney, Kirby, Nelson, O. Paul, Pearlman, Perlman, Ranke, Ricewasser, Schick, Turner, Callen, Gumbiner, Kesler, J. Post, Selverstone, Singer, Yellen, Baskett, Beaubien, Bretz, Donovan, Farago, Hiss, Joranson, Martin, McBride, McGrath, Pilling, Schupp, and Teschan, Miss Hiscock.
355. Clinic-Hematology. Research and Educational Hospitals. One-sixth of class. Six hours each week for six weeks; F, W, and Sp. Not offered in 1949-1950. Associate Professors Birch and Limarzi, Assistant Professor J. T. Paul.

356. Clinic-Cardiology. Research and Educational and Cook County Hospitals. One-third of class. One hour each week for twelve weeks; F, W, and Sp. Not offered in 1949-1950. Associate Professors Feldman, Pilot, and Rabens, Assistant Professors A. Bernstein and Boikan.
357. Electrocardiography. Lecture and seminar. One-third of class. One hour each week; F, W, and Sp. Not offered in 1949-1950. Associate Professor Feldman.

Required Courses — Fourth Year

375. Clinic. Selected topics. Special attention to differential diagnosis. Research and Educational Hospitals. One hour each week; continuous through W and Sp. Professor Foley, Associate Professor Hick.
376. Tropical Medicine. Clinic and laboratory. Research and Educational Hospitals. Lectures, demonstrations, and laboratory work. Lecture one hour each week, F; laboratory three hours each week for one quarter, F, W, or Sp. Associate Professor Birch.
377. Outpatient Clerkship. Research and Educational and Presbyterian Hospitals. One-sixth of class. Eighteen hours each week for six weeks; F, W, and Sp. Professors Armstrong, L. K. Campbell, Eyerly, and Kelly, Associate Professors Foran, Hick, Kark, Lundy, Pernokis, Sheaff, Streicher, Traut, and Trimmer, Assistant Professors Barton, J. A. Campbell, Deuss, Gardiner, Gray, Hilkevitch, Levitt, Levy, Propst, Steigmann, Stuppy, Wood, and Woodruff, Doctors Akre, Baird, Bennett, Berg, M. M. Bernstein, Breuhaus, R. G. Brown, Darling, Goldwasser, Grosz, Gunther, Hoover, Hutchison, E. N. Irons, Johnston, Mehlman, Nelson, O. Paul, Ravenna, A. H. Rosenblum, Schick, M. Simkin, W. Simkin, Aren, Baumeister, Bica, Brevis, Cronheim, DeYoung, Dickey, Feinhandler, Fisher, Gondek, Gregorio, Gurvey, Hartman, Hennemeyer, Janson, Kesler, Lewis, Petrakos, J. Post, Sargent, Schwartz, Selverstone, Siglin, Sladek, Wien, Baskett, Beaubien, Black, Bretz, Chapman, de Jong, Donovan, Farago, Grimelli, Grundset, Hiss, Jackson, Martin, McBride, McGrath, O'Brien, Pilling, Ray, Schnaer, Schupp, Slott, Teschan, Thrift, Weiner, and Yonan.
378. Clerkships. Presbyterian, Cook County, and Research and Educational Hospitals. Minimum of 39 hours each week for six weeks; F, W, and Sp. Additional time may be required at the discretion of the chief of the medical service to which the student is assigned. Professors Armstrong, R. C. Brown, L. K. Campbell, Eyerly Foley, Gatewood, Hibbs, E. E. Irons, Keeton, Kelly, W. E. Post, Thomas, and Woodyatt, Associate Professors Feldman, Foran, Lundy, Milles, Pernokis, Pilot, Ragins, Sheaff, Traut, and Trimmer, Assistant Professors Afremow, Barton, A. Bernstein, Butler, J. A. Campbell, Gray, Knight, Steigmann, Stuppy, and Wood, Doctors Akre, Breuhaus, R. G. Brown, E. N. Irons, Kirby, Nelson, O. Paul, Schick, Turner, Kesler, J. Post, Selverstone, Stewart, Baskett, Beaubien, Bretz, Chertack, Donovan, Farago, Forrest, Gianasi, Hiss, Joranson, Martin, McBride, McGrath, Meredith, Pilling, Schupp, Teschan, Vorhaus, and Young.
379. Medical Seminar. A review of current medical literature, preparation of reports on assigned topics, round table discussions of assigned topics. Each student attends one quarter; F, W, and Sp. Professor Foley, Associate Professor Hick, Assistant Professors Levy, Montgomery, Paul, and Steigmann, Dr. Ricewasser.
380. Nutrition. Discussion of normal and therapeutic diets. Instruction in filling of quantitative diets. Conferences with patients and instruction of them in the diet. Ten hours each week for six weeks; F, W, and Sp. Not offered in 1949-1950. Miss Hiscock.

Required Courses — Occupational Therapy Students

324. Lectures on Medical Conditions. Lectures and clinics in Medicine for Occupational Therapy students. Twelve hours lecture and twelve hours clinic; F and Sp.

NEUROLOGY AND NEUROLOGICAL SURGERY

Eric Oldberg, Ph.D., M.D., Professor of Neurology and Neurological Surgery, and Head of the Department
George B. Hassin, M.D., Professor of Neurology, *Emeritus*
Percival Bailey, Ph.D., M.D., Distinguished Professor of Neurology and Neurological Surgery
Paul C. Bucy, M.S., M.D., Professor of Neurology and Neurological Surgery
Roland P. Mackay, A.B., M.D., Professor of Neurology
Loren W. Avery, A.B., M.D., Clinical Professor of Neurology (Rush)
Adrien Verbrugghen, B.M., Ch.M., M.S., Clinical Professor of Neurological Surgery (Rush), assigned to Anatomy part time
Ben W. Lichtenstein, M.D., M.S., Associate Professor of Neurology
Isadore B. Diamond, M.D., Assistant Professor of Neurology, *Emeritus*
Wesley A. Gustafson, M.D., Assistant Professor of Neurological Surgery
Ernst Haase, M.D., Clinical Assistant Professor of Neurology
Howard Zeitlin, M.D., M.S., Clinical Assistant Professor of Neurology
Harry G. Hardt, Ph.G., M.D., Clinical Associate in Neurology (Rush), *Emeritus*
Henry D. Von Witzleben, M.D., Clinical Instructor in Neurology
I. Joshua Speigel, M.D., Clinical Instructor in Neurosurgery
Charles S. Textor, II, M.S., M.D., Clinical Instructor in Neurosurgery (Rush)
Nathan Zolt, M.D., Clinical Instructor in Neurology
Oscar Sugar, Ph.D., M.D., Instructor in Neurological Surgery
Joseph P. Cascino, B.S., M.D., Clinical Instructor in Neurosurgery
John F. Paget, A.B., M.D., Clinical Assistant in Neurological Surgery (Rush)
Luis V. Amador, B.S., M.D., Clinical Assistant in Neurology and Neurological Surgery
Donald B. Freshwater, B.S., M.D., Clinical Assistant in Neurology and Neurological Surgery[1]
Robert P. Woods, B.S., M.D., Clinical Assistant in Neurology and Neurological Surgery[1]
Paul H. Crandall, B.S., M.D., Clinical Assistant in Neurology and Neurological Surgery[1]
Melvin L. Schwartz, B.S., M.D., Clinical Assistant in Neurology and Neurological Surgery[1]
Harold R. Oberhill, B.S., M.D., Clinical Assistant in Neurosurgery

Required Courses — Third Year

350. Fundamentals of Neurology. A correlation of the anatomy, physiology, pathology, and clinical examination of the nervous system. One hour each week; F. Associate Professor Lichtenstein.
351. Neurology Clinic. Systematic lectures and clinical demonstrations of the principal diseases of the nervous system. One hour each week; W. Professors Mackay and Bucy, Associate Professor Lichtenstein.

Required Courses — Fourth Year

375. Neurology Clinic. Lectures and demonstrations of clinical cases. One hour each week; F and W. Professor Bailey.
376. Neurological Survey. Lectures and demonstrations of neurosurgical problems. One two-hour period each week; F, W, and Sp. Twelve weeks for each third of the class. Professor Oldberg.
377. Dispensary. Six two-hour periods each week; F, W, and Sp. Two weeks for each sixteenth of the class. Entire staff of the department.

Required Courses — Occupational Therapy Students

324. Neurological Conditions. Etiology, symptomatology, and treatment of diseases of the brain, spinal cord, and peripheral nerves. Twenty-four hours each quarter; F, W, and Sp. Miss Abrams.

[1] Also Resident at the Research and Educational Hospitals.

OBSTETRICS AND GYNECOLOGY

Frederick H. Falls, M.S., M.D., Professor of Obstetrics and Gynecology, and Head of the Department
Rudolph W. Holmes, M.D., Professor of Obstetrics and Gynecology (Rush), *Emeritus*
John C. Webster, A.B., M.D., D.Sc., LL.D., Professor of Obstetrics and Gynecology (Rush), *Emeritus*
N. Sproat Heaney, A.B., M.D., D.Sc., Clinical Rush Professor of Obstetrics and Gynecology, *Emeritus*
Joseph L. Baer, M.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush), *Emeritus*
Aaron E. Kanter, M.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush)
Edward D. Allen, B.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush)
William H. Browne, B.S., M.D., Clinical Associate Professor of Obstetrics and Gynecology
Abraham F. Lash, M.D., Ph.D., Clinical Associate Professor of Obstetrics and Gynecology
Frank L. Stone, M.D., Clinical Assistant Professor of Obstetrics and Gynecology, *Emeritus*
John M. Lang, M.D., Clinical Assistant Professor of Obstetrics and Gynecology, *Emeritus*
Charles Newberger, B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology, *Emeritus*
Walter C. Hammond, M.D., Clinical Assistant Professor of Obstetrics and Gynecology, *Emeritus*
Alfred J. Kobak, M.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Richard A. Lifvendahl, B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Harry Boysen, B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology (Rush)
Arthur H. Klawans, B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology (Rush)
Fred O. Priest, A.B., M.D., Clinical Assistant Professor of Obstetrics and Gynecology (Rush)
George H. Rezek, M.D., M.S., Clinical Assistant Professor of Obstetrics and Gynecology
John R. Wolff, M.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Vincent C. Freda, B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Frederick J. Roos, M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Michael H. Boley, B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Harry Sered, M.D., Clinical Assistant Professor of Obstetrics and Gynecology
Cecil C. Draa, B.S., M.D., Clinical Associate in Obstetrics and Gynecology (Rush)
August F. Daro, B.S., M.D., Clinical Associate in Obstetrics and Gynecology
Clair M. Carey, B.S., M.D., Clinical Associate in Obstetrics and Gynecology
Joseph B. Teton, B.S., M.D., Clinical Associate in Obstetrics and Gynecology and Gynecological Consultant
Frank J. Walsh, B.S., M.D., Clinical Associate in Obstetrics and Gynecology
Alfons R. Bacon, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
C. Otis Smith, A.B., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Hugo C. Baum, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology (Rush)
Theodore C. Mouzakeotis, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Sol J. Benensohn, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Ashley M. Brand, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Sol T. DeLee, M.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Armand J. Mauzey, M.S., M.D., Instructor in Obstetrics and Gynecology
Charles D. Krause, B.S., M.D., Instructor in Obstetrics and Gynecology
James P. FitzGibbons, B.S., M.D., Instructor in Obstetrics and Gynecology

Harry W. Bergmann, M.D., Instructor in Obstetrics and Gynecology (Rush)[1]
Rocco V. Lobraico, Jr., B.S., M.D., Instructor in Obstetrics and Gynecology
Robert J. Glenner, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Harold E. Smith, B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
Richard H. Andresen, B.S., M.D., Instructor in Obstetrics and Gynecology (Rush)[1]
Richard W. Karraker, B.S., M.D., Instructor in Obstetrics and Gynecology[2]
Harry K. Waddington, B.S., M.D., Assistant in Obstetrics and Gynecology
Dale A. Rold, M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
Joseph S. Angell, M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
Benjamin M. Breister, M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
Marvin R. Brumme, B.S., M.D., Clinical Assistant in Obstetrics and Gynecology
J. Frederick Lutz, B.S., M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
Richard F. Whitlock, B.S., M.D., Assistant in Obstetrics and Gynecology[2]
Thomas C. McDougal, A.B., M.D., Clinical Assistant in Obstetrics and Gynecology
Thomas R. Cunningham, B.S., M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
John B. Nettles, B.S., M.D., Assistant in Obstetrics and Gynecology[2]
Lowell F. Peterson, M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
Lawrence J. Sykora, M.D., Clinical Assistant in Obstetrics and Gynecology
Adrian R. Oleck, B.S., M.D., Assistant in Obstetrics and Gynecology
Stephen D. Austin, M.D., Assistant in Obstetrics and Gynecology (Rush)[1]
Schuyler M. Bissell, M.D., Assistant in Obstetrics and Gynecology (Rush)[1]
George E. Fagan, M.D., Assistant in Obstetrics and Gynecology (Rush)[1]
Joseph J. Griffin, A.B., M.D., Assistant in Obstetrics and Gynecology[2]
John S. Long, M.D., Assistant in Obstetrics and Gynecology (Rush)[1]
Jerome D. Kaufman, M.D., Clinical Assistant in Obstetrics and Gynecology
Harvey A. Gollin, M.D., Clinical Assistant in Obstetrics and Gynecology
John A. Moyer, B.S., M.D., Clinical Assistant in Obstetrics and Gynecology

Note: The work of the obstetrical division is aimed to give the student a practical training in the fundamentals of obstetric practice. An introductory course is given in the second year and weekly seminars are held in which small groups meet with instructors to discuss the anatomy and embryology of obstetrics as presented in a standard textbook. The seminars are supplemented by weekly illustrated lectures for the whole class in which the correlation between the anatomy and embryology and problems of clinical obstetrics are pointed out. In the third year the student covers the subject systematically in a didactic course supplemented by examination of patients in the dispensary and wards. In the fourth year he is thoroughly drilled in prenatal care, birthroom and newborn nursery methods. He assists at normal deliveries and is taught the principles of obstetrical anesthesia and analgesia. Complicated cases are presented clinically, and operations are demonstrated on the manikin and on living patients. Work in the home delivery service and in the birthroom of the Research and Educational Hospitals is supplemented by ward walks and demonstration of cases. Additional clerkships are given at the Cook County Hospital, Presbyterian Hospital, and West Suburban Hospital, and these include ward rounds, dispensary service, and clinical conferences.

A. OBSTETRICS

Required Courses — Second Year

325. Obstetrical Anatomy and Physiology. An introduction in the form of one hour of lecture for the whole class and one hour of seminar in eight sections each week. The fundamentals of anatomy, embryology, and physiology of mother and fetus are studied as presented in a standard text of obstetrics. Sp only. Professor Falls, Assistant Professor Freda, Doctors Teton, Glenner, Mouzakeotis, Mauzey, Nettles, and H. E. Smith.

Required Courses — Third Year

350. Physiology of Pregnancy and Labor and the Puerperium. Seminars on physiology of pregnancy and labor and the puerperium. One one-hour period each week; F, W, and Sp. Assistant Professors Rezek and Kobak, Doctors Walsh, Glenner, Benensohn, Mouzakeotis, H. E. Smith, Teton, Lobraico, and DeLee.

[1] Also Resident at the Presbyterian Hospital.
[2] Also Resident at the Research and Educational Hospitals.

351. Demonstration Clinic. Patients are presented to demonstrate the subject matter being presented in course 350. F, W, and Sp. Professor Falls, Associate Professors Lash and Browne, Assistant Professors Kobak and Wolff, Dr. Mauzey.
352. Dispensary Out-Clinic. Prenatal and postnatal cases are studied, histories written, physical examinations made by the student and complications studied, prognosis discussed, and treatment outlined by the instructor. Six hours each day for two weeks, F, W, and Sp. Assistant Professors Boley, Freda, and Roos, Doctors Benensohn, Mouzakeotis, Carey, Sykora, Brand, McDougal, Mauzey, Walsh, Glenner, C. O. Smith, DeLee, Teton, Krause, Brumme, Oleck, and Kaufman.
353. Ward Walk. Various phases of the puerperium are discussed and complicated cases waiting delivery are studied. Six hours each day for two weeks; F, W, and Sp. Doctor Lobraico.
354. Cook County Clerkship. Each third-year student spends two weeks on duty in the obstetrical wards in Cook County Hospital observing all cases delivered during that time. F, W, and Sp. Assistant Professor Kobak, Doctors Daro, Kaufman, and Gollin.
355. Introductory Course in Gynecology. An introduction in the form of one-hour seminars each week for the entire class divided into eight sections. The fundamentals of anatomy, physiology, gynecologic examinations, diagnosis, and treatment measures are studied as presented in a standard text of gynecology. Sp. Assistant Professors Boley, Rezek, and Freda, Doctors FitzGibbons, Oleck, Krause, and Mauzey.

Required Courses — Fourth Year

375. Manikin. The subject of operative obstetrics is presented. Students operate on the manikin under supervision and are taught technique of such operations. Two one-hour periods each week for six weeks; F, W, and Sp. Associate Professors Browne and Lash, Assistant Professors Freda, Rezek, Wolff, and Kobak, Doctors Glenner, Benensohn, Lobraico, and Oleck.
376. Clinic. The major complications that occur in the obstetrical department of the Research and Educational Hospitals are selected for demonstration and discussion in a dry clinic and this is supplemented by lantern slide demonstrations. One hour each week for twelve weeks; F, W, and Sp. Professor Falls.
377. Clerkship. During the fourth year, six weeks of full-time clerkships are required. During two of these weeks students are housed in a group at the Professional Y.M.C.A. and are on call night and day. Two students are assigned to each case and are on duty from the time labor starts until the patient is delivered. They are required to keep records of the labors and the postpartum visits. They are occupied in the obstetrical ward of the hospital when not attending outpatient cases, and attend gynecological conferences and operations when practicable. F, W, and Sp. Professor Falls, Doctors Krause, FitzGibbons, and Mauzey.

B. GYNECOLOGY

Required Courses — Fourth Year

378. Seminar. Conferences in groups of twenty students. An orderly review of a standard textbook is undertaken and the assignments discussed. F and W. Not offered in 1949-1950. Associate Professors Browne and Lash, Assistant Professors Lifvendahl, Sered, Wolff, and Kobak, Doctors Krause and FitzGibbons.
379. Clinic. A systematic review of the major gynecological disease is presented from the preoperative and postoperative wards of Cook County Hospital in the form of a clinic seminar. Diagnosis is stressed and therapy discussed. One hour each week; F, W, and Sp. Professor Falls.
380. Dispensary. Small groups instructed in history taking and physical examinations. Reading assignments are discussed. One two-hour period five days a week for two weeks; F, W, and Sp. Assistant Professors Lifvendahl, Freda, Rezek, Roos, and Wolff, Doctors Mouzakeotis, Mauzey, Lobraico, Teton, Glenner, H. E. Smith, FitzGibbons, Krause, Oleck, and Kaufman.
381. Special Clinics and Ward Rounds. Venereal, endocrine, carcinoma, sterility, and operative clinics. Reading assignments are discussed. Two hours a day for two weeks; F, W, and Sp. Assistant Professors Boley and Freda, Doctors Mauzey, Teton, and Lobraico.

382. Gynecological and Obstetrical Pathology. Same as Pathology 382. In cooperation with the Department of Pathology gross and microscopic pathological material is presented for study and discussion. Clinical and pathological correlations are stressed. One two-hour period each week for six weeks; F, W, and Sp. Professor Bennett, Associate Professor Krakower, Doctors C. O. Smith, and Sykora.

383. Obstetrical and Gynecological Anatomy. Same as Anatomy 383. Discussion with groups of thirty students reviewing the fundamental anatomy of breast, uterus, ovary, kidney, ureter, perineum, placenta, and fetus, as related to the problems of clinical obstetrics. Patients are used for demonstration and one session is spent in the anatomical department where special dissections of these tissues are demonstrated. The students are required to make drawings and turn in drawings to scale of this anatomical material. One two-hour period each week for six weeks; F, W, and Sp. Professors Falls and Kampmeier, Dr. Teton.

384. Obstetrical and Gynecological Physiology. Normal pregnant women and women in labor and in the puerperium are presented, and the physiology of pregnancy, labor, the puerperium, lactation, and the newborn is discussed. Following a one-hour conference the students have an opportunity to observe and check the physiological findings in the wards and nurseries of the department. One hour each week for six weeks; F, W, and Sp. Professor Falls.

385. Cook County Hospital Clerkship. Ten students daily from 10 a.m. to 4 p.m. for two weeks. They attend ward walks, write histories, examine patients, and are present at five two-hour operative clinics. During their week of obstetrics they are present in the birthroom witnessing normal and abnormal deliveries. They work in the prenatal and postnatal clinics, the toxemia clinic, and the dystocia clinic. They are on call for all operative deliveries and complicated cases. F, W, and Sp. Professors Falls and Kanter, Associate Professors Browne and Lash, Assistant Professors Sered and Kobak, Dr. Daro, and associates.

OPHTHALMOLOGY

William F. Hughes, Jr., A.B., M.D., Professor of Ophthalmology and Head of the Department
Hallard Beard, B.S., M.D., Professor of Ophthalmology
Edward V. L. Brown, B.S., M.D., Clinical Professor of Ophthalmology (Rush), *Emeritus*
Charles G. Darling, M.D., Clinical Professor of Ophthalmology (Rush), *Emeritus*
Harry S. Gradle, A.B., M.D., Professor of Ophthalmology (Rush), *Emeritus*
Peter C. Kronfeld, M.D., Professor of Ophthalmology
William F. Moncreiff, M.S., M.D., Clinical Professor of Ophthalmology (Rush)
Justin M. Donegan, M.D., Associate Professor of Ophthalmology (Rush)
Thomas D. Allen, A.B., M.D., Clinical Associate Professor of Ophthalmology (Rush)
Earle B. Fowler, B.S., M.D., Clinical Associate Professor of Ophthalmology (Rush)
Carl Apple, B.S., M.D., Clinical Associate Professor of Ophthalmology
Georgiana D. Theobald, M.D., Associate Professor of Ophthalmology and Clinical Pathologist
Roy O. Riser, B.S., M.D., Clinical Associate Professor of Ophthalmology
Joseph S. Haas, A.B., B.S., M.D., Assistant Professor of Ophthalmology
Max M. Jacobson, B.S., M.D., Clinical Assistant Professor of Ophthalmology (Rush)
James W. Clark, B.S., M.D., Clinical Assistant Professor of Ophthalmology
Jack P. Cowen, B.S., M.D., Clinical Assistant Professor of Ophthalmology
Karl J. Scheribel, B.S., M.D., Clinical Assistant Professor of Ophthalmology (Rush)
Theodore N. Zekman, A.B., B.S., M.D., Clinical Assistant Professor of Ophthalmology
Vernon M. Leech, M.D., Clinical Associate in Ophthalmology (Rush)
Nathan H. Fox, B.S., M.D., Clinical Associate in Ophthalmology
David B. Maher, B.S., M.D., Clinical Associate in Ophthalmology
Glenway Nethercut, A.B., M.D., Clinical Associate in Ophthalmology
William Rosenberg, B.S., M.D., Clinical Associate in Ophthalmology
Milton M. Scheffler, B.S., M.D., Clinical Associate in Ophthalmology
Daniel Snydacker, M.D., Clinical Associate in Ophthalmology
Paul Sternberg, B.S., M.D., Clinical Associate in Ophthalmology

Martin J. Urist, A.M., M.D., Instructor in Ophthalmology
Albert C. Biegel, A.B., M.D., Instructor in Ophthalmology
Carroll W. Browning, B.S., M.D., Instructor in Ophthalmology
Maurice Pearlman, B.S., M.D., Instructor in Ophthalmology
Manuel L. Stillerman, B.S., M.D., Instructor in Ophthalmology
Roosevelt Brooks, M.D., Clinical Instructor in Ophthalmology
Cyril V. Crane, B.S., M.D., Clinical Instructor in Ophthalmology (Rush)
Myron C. Benford, B.S., M.D., Clinical Instructor in Ophthalmology
Charles A. Learsy, M.D., Clinical Instructor in Ophthalmology (Rush)
H. Isabelle McGarry, B.S., M.D., Instructor in Ophthalmology
Fred G. Cox, B.S., M.D., Clinical Instructor in Ophthalmology
G. Henry Mundt, Jr., M.S., M.D., Clinical Instructor in Ophthalmology
Abraham Schultz, M.D., Clinical Instructor in Ophthalmology
Edward Pushkin, B.S., M.D., Clinical Instructor in Ophthalmology
Louis Feinberg, B.S., M.D., Clinical Instructor in Ophthalmology
Leona R. Fordon, B.S., M.D., Clinical Assistant in Ophthalmology
Thomas B. McNamara, M.D., Clinical Assistant in Ophthalmology
Edward Wones, B.S., M.D., Clinical Assistant in Ophthalmology
Charles V. Barrett, B.S., M.D., Assistant in Ophthalmology[1]
Glen Floyd, A.B., M.D., Assistant in Ophthalmology[1]
James M. Hall, B.S., M.D., Assistant in Ophthalmology[1]
William H. Middleton, A.B., M.D., Assistant in Ophthalmology[1]
Edward T. Jones, B.S., M.D., Assistant in Ophthalmology[1]
Frederick E. Wade, B.S., M.D., Assistant in Ophthalmology[1]
Walter L. Bayard, B.S., M.D., Assistant in Ophthalmology[1]
William B. Brewster, B.S., M.D., Assistant in Ophthalmology[1]
Philip W. H. Chock, B.S., M.D., Assistant in Ophthalmology[1]
Wilbur C. Guest, B.S., M.D., Assistant in Ophthalmology[1]
Leonard Hahne, B.S., M.D., Assistant in Ophthalmology[1]
Mac J. Hough, B.S., M.D., Assistant in Ophthalmology[1]
Camille H. Killian, B.S., M.D., Assistant in Ophthalmology[1]
Arthur C. Kissling, B.S., M.D., Assistant in Ophthalmology[1]
Donald A. Loeb, B.S., M.D., Assistant in Ophthalmology[1]
James E. McDonald, B.S., M.D., Assistant in Ophthalmology[1]
Robert Murphy, B.S., M.D., Assistant in Ophthalmology (Rush)
Edward A. Panter, B.S., M.D., Assistant in Ophthalmology[1]
Samuel L. Schall, B.S., M.D., Assistant in Ophthalmology[1]
Arthur W. Tacke, B.S., M.D., Assistant in Ophthalmology (Rush)
Charles Wilson, B.S., M.D., Assistant in Ophthalmology (Rush)

Required Courses — Fourth Year

350. Didactic Instruction. Illustrated lectures covering diseases of the eye related to general systemic disease, and ocular conditions commonly encountered in the general practice of medicine. One hour each week; F. Professors Hughes and Kronfeld, Assistant Professor Haas.

351. Clinical Instruction. Examination of dispensary patients, including visual acuity, external and slit lamp examinations, tonometry, ophthalmoscopy, and visual fields. Demonstrations of important ocular diseases. Two hours a day, five days a week for two weeks; F, W, and Sp. Professors Hughes, Beard, and Kronfeld, Associate Professors Apple and Donegan, Assistant Professors Clark and Zekman, Doctors Fox, Maher, Pearlman, Stillerman, and Wilson.

ORTHOPAEDIC SURGERY

Fremont A. Chandler, B.S., M.D., Professor of Orthopaedic Surgery and Head of the Department
Henry B. Thomas, B.S., M.D., Professor of Orthopaedic Surgery, *Emeritus*
Fred W. Hark, B.S., M.D., Associate Professor of Orthopaedic Surgery

[1] Also Resident at the Illinois Eye and Ear Infirmary and the Research and Educational Hospitals.

Claude N. Lambert, M.D., M.S., Associate Professor of Orthopaedic Surgery
Elvin J. Berkheiser, A.B., M.D., Clinical Associate Professor of Orthopaedic Surgery (Rush)
John J. Fahey, M.D., Associate Professor of Orthopaedic Surgery
Frank G. Murphy, B.S., M.D., Clinical Assistant Professor of Orthopaedic Surgery
William A. Marshall, B.S., M.D., Clinical Associate in Orthopaedic Surgery
Everett A. Grimmer, D.D.S., Clinical Associate in Orthopaedic Surgery
Leo F. Miller, B.S., M.D., Clinical Associate in Orthopaedic Surgery
Horace E. Turner, B.S., M.D., Clinical Associate in Orthopaedic Surgery
Fred Shapiro, B.S., M.D., Clinical Associate in Orthopaedic Surgery (Rush)
Louis S. Varzino, B.S., M.D., Clinical Instructor in Orthopaedic Surgery (Rush)
Joseph D. Farrington, A.B., M.D., Clinical Instructor in Orthopaedic Surgery
Charles T. Flynn, Jr., B.S., M.D., Instructor in Orthopaedic Surgery
Theodore A. Fox, B.S., M.D., Instructor in Orthopaedic Surgery
Kurt L. Eichelbaum, M.D., Clinical Instructor in Orthopaedic Surgery
Kenneth G. Jones, B.S., M.D., Instructor in Orthopaedic Surgery
Herman Joffe, M.S., M.D., Clinical Assistant in Orthopaedic Surgery
Robert C. Bechtol, B.S., M.D., Assistant in Orthopaedic Surgery
Ralph T. Lidge, M.S., M.D., Assistant in Orthopaedic Surgery
Alan R. Crain, M.D., Assistant in Orthopaedic Surgery
Charles V. Heck, A.B., B.S., M.D., Research Assistant in Orthopaedic Surgery
Raymond J. Adams, B.S., M.D., Assistant in Orthopaedic Surgery
Robert E. Buckmaster, B.S., M.D., Assistant in Orthopaedic Surgery

Required Courses — Third Year

350. Clinical Orthopaedic Surgery with Demonstrations. Consideration of orthopaedic problems, including diagnosis and operative treatment of fractures and bone tumors. One hour each week; F, W, and Sp.

Required Courses — Fourth Year

376. Clerkship. Clinical demonstrations for seniors. Observation and study of clinical cases. Practical demonstrations of orthopaedic conditions — ward rounds, diagnostic problems, surgical procedures. F, W, and Sp.

Required Courses — Postgraduate Orthopaedic Nursing

Orthopaedic Nursing. Lectures, demonstrations, ward rounds, operating room observation. F, W, and Sp.

Required Courses — Occupational Therapy Students

324. Orthopaedic Conditions. A study of injuries to bones and joints, including involvement of soft tissue, paralysis; etiology, types, symptoms, and treatment. Twelve lectures and twenty-four hours clinic; F.

OTOLARYNGOLOGY

Francis L. Lederer, B.S., M.D., Professor of Otolaryngology and Head of the Department
Abraham R. Hollender, M.S., M.D., Professor of Otolaryngology, *Emeritus*
Daniel B. Hayden, A.M., M.D., Clinical Professor of Otolaryngology (Rush), *Emeritus*
Herbert Koepp Baker, Ph.D., Professor of Clinical Speech Pathology and Director of Speech and Hearing Rehabilitation
Paul H. Holinger, M.S., M.D., Associate Professor of Bronchoesophagology
Maurice F. Snitman, B.M., Associate Professor of Otolaryngology
Marvin Tamari, M.D., Associate Professor of Otolaryngology
Walter H. Theobald, B.S., M.D., Clinical Associate Professor of Otolaryngology
Oliver E. Van Alyea, M.D., Clinical Associate Professor of Otolaryngology
Richard W. Watkins, B.S., M.D., Clinical Associate Professor of Otolaryngology (Rush)

Albert H. Andrews, M.S., M.D., Clinical Assistant Professor of Bronchoesophagology
Edward Chainski, B.S., M.D., Clinical Assistant Professor of Otolaryngology
Noah D. Fabricant, M.S., M.D., Clinical Assistant Professor of Otolaryngology
Noah Fox, B.S., M.D., Clinical Assistant Professor of Otolaryngology
Stanton A. Friedberg, A.B., M.D., Clinical Assistant Professor of Otolaryngology
G. Kenneth Lewis, B.S., M.D., Clinical Assistant Professor of Otolaryngology
Robert B. Lewy, B.S., M.D., Clinical Assistant Professor of Otolaryngology
George S. Livingston, M.S., M.D., Clinical Assistant Professor of Otolaryngology
Samuel M. Morwitz, B.S., M.D., Clinical Assistant Professor of Otolaryngology
Joseph G. Schoolman, A.B., M.D., Assistant Professor of Otolaryngology
Sherman L. Shapiro, B.S., M.D., Clinical Assistant Professor of Otolaryngology
Gordon H. Scott, M.D., Clinical Assistant Professor of Otolaryngology (Rush)
Irwin G. Spiesman, B.S., M.D., Clinical Assistant Professor of Otolaryngology
Jean L. Utley, Ph.D., Assistant Professor of Audiology and Associate Director of Speech and Hearing Clinic
Linden J. Wallner, B.S., M.D., Clinical Assistant Professor of Otolaryngology (Rush)
Frank Wojniak, M.S., Clinical Assistant Professor of Otolaryngology (Rush)
Oscar J. Becker, M.S., M.D., Clinical Associate in Otolaryngology
Bruno Blumklotz, M.D., Clinical Associate in Otolaryngology
Arthur J. Coombs, A.B., M.D., Clinical Associate in Otolaryngology
Lois D. Greene, A.B., M.D., Clinical Associate in Otolaryngology
Robert Henner, M.D., Clinical Associate in Otolaryngology
Kenneth Johnston, M.D., Clinical Associate in Bronchoesophagology
Norman Leshin, B.S., M.D., Clinical Associate in Otolaryngology
Frank J. Piszkiewicz, B.S., M.D., Clinical Associate in Otolaryngology
Leo Satz, B.S., M.D., Clinical Associate in Otolaryngology
Louis Savitt, M.D., Clinical Associate in Otolaryngology
Harkishen Singh, D.D.S., M.D., Clinical Associate in Otolaryngology
Helmut Blumenthal, M.D., Clinical Instructor in Otolaryngology
Max H. Cutler, B.S., M.D., Clinical Instructor in Otolaryngology
Catherine L. Fogle, B.S., Instructor in Auditory Training
Elmer A. Friedman, B.S., M.D., Clinical Instructor in Otolaryngology
Maurice M. Hoeltgen, B.S., M.D., Clinical Instructor in Otolaryngology
Louisa J. Irvine, A.B., Instructor in Audiology
Evolyn Dyer, Instructor in Clinical Speech
Lloyd L. Matzkin, B.S., M.D., Clinical Instructor in Otolaryngology
Edmund V. Pellettiere, B.S., M.D., Clinical Instructor in Otolaryngology
Frederick J. Pollock, B.S., M.D., Clinical Instructor in Otolaryngology
Kurt C. Springer, B.S., M.D., Clinical Instructor in Otolaryngology (Rush)
Lawrence C. Cohen, B.S., M.D., Instructor in Otolaryngology
Richard E. Marcus, B.S., M.D., Assistant in Otolaryngology
Emanuel Skolnik, B.S., M.D., Assistant in Otolaryngology
Irwin D. Horwitz, B.S., M.D., Clinical Teaching Assistant in Otolaryngology
Frank J. Novak, III, B.S., M.D., Clinical Teaching Assistant in Otolaryngology
A. Joel Zeldin, M.D., Assistant in Otolaryngology
George C. Anison, B.S., M.D., Clinical Assistant in Bronchoesophagology
Gerald E. Guemmer, B.S., M.D., Clinical Assistant in Otolaryngology (Rush)
Arthur Loewy, B.S., M.D., Clinical Assistant in Otolaryngology
Douglas Mazique, B.S., M.D., Clinical Assistant in Otolaryngology
Leonard M. Nianick, B.S., M.D., Clinical Assistant in Otolaryngology
Burton J. Soboroff, B.S., M.D., Clinical Assistant in Otolaryngology
Anthony E. Sukis, B.S., M.D., Clinical Assistant in Otolaryngology
John Weidemann, B.S., M.D., Clinical Assistant in Otolaryngology
Ross R. Goldware, B.S., M.D., Assistant in Otolaryngology
Robert J. McMahon, B.S., M.D., Assistant in Otolaryngology
Monte G. Steadman, B.S., M.D., Assistant in Otolaryngology

Note: This department is divided into the following divisions: (a) Otolaryngology, (b) Bronchoesophagology, (c) Speech and Hearing Rehabilitation, (d) Maxillofacial Surgery. The required courses in these divisions are so arranged that didactic instruction precedes practical application of the specialty, emphasizing its relation to general medicine. During the fourth year, the student is given instruction in the basic principles

of the specialty by means of formal lectures, augmented by informal conferences in small groups, and through opportunities to apply the principles of diagnosis and treatment. This is carried on in the outpatient department by means of clinics designed to present the more common otolaryngologic affections, and in a dispensary service where the student is taught individually and directly by contact with patients.

Required Courses — Fourth Year

350. The Ear. Surgical anatomy, physiology, applied pathology, and treatment. One hour each week; F. Professors Lederer and Baker, Associate Professor Snitman, Doctors Skolnik and Marcus.
351. The Nose and Paranasal Sinuses. Surgical anatomy, physiology, pathology, and treatment. One hour each week; W. Professor Lederer, Associate Professor Snitman, Dr. Skolnik.
352. The Pharynx and Larynx. Surgical anatomy, physiology, applied pathology, and treatment. One hour each week; Sp. Professors Lederer and Baker, Associate Professors Holinger and Snitman, Assistant Professor Andrews, Dr. Skolnik.
353. Dispensary. Research and Educational Hospitals. Six two-hour periods during two weeks; F, W, and Sp. Professor Lederer and staff.

PATHOLOGY

Granville A. Bennett, B.S., A.M. (Hon.), M.D., Professor of Pathology and Head of the Department, and Pathologist-in-Chief in the Research and Educational Hospitals
David J. Davis, Ph.D., M.D., Professor of Pathology and Dean of the College of Medicine, *Emeritus*
George M. Hass, M.D., Professor of Pathology (Rush)
Cecil A. Krakower, B.S., C.M., M.D., Professor of Pathology and Associate Pathologist in the Research and Educational Hospitals
Samuel A. Levinson, Ph.D., M.D., Professor of Pathology and Director of the Hospital Laboratory
Otto Saphir, M.D., Clinical Professor of Pathology
Charles E. Cahn-Bronner, M.D., Professorial Lecturer in Pathology
Alexander J. Nedzel, M.S., M.D., Associate Professor of Pathology
Maurice Lev, B.S., M.D., Associate Professor of Pathology and Associate Pathologist in the Research and Educational Hospitals
George Milles, Ph.G., M.S., M.D., Associate Professor of Pathology and Coordinator of Basic Science
Lester S. King, A.B., M.D., Clinical Associate Professor of Pathology
Robert P. MacFate, Ch.E., Ph.D., Assistant Professor of Pathology and Assistant Director of the Hospital Laboratory
Jerry J. Kearns, B.S., M.D., Clinical Assistant Professor of Pathology
Alex B. Ragins, M.S., M.D., Clinical Assistant Professor of Pathology
Hubert R. Catchpole, Ph.D., Assistant Professor of Pathology
Charles B. Taylor, B.S., M.D., Assistant Professor of Pathology (Rush)
Earl W. Cauldwell, M.S., M.D., Research Associate in Pathology
Louis Parmacek, B.S., M.D., Clinical Associate in Pathology
Coye C. Mason, B.S., M.D., Clinical Associate in Pathology
Aaron Learner, M.S., M.D., Clinical Associate in Pathology
Conrad L. Pirani, M.D., Clinical Associate in Pathology
Elizabeth A. McGrew, A.B., M.D., Instructor in Pathology and Assistant Pathologist in the Research and Educational Hospitals
Harold A. Grimm, B.S., M.D., Clinical Instructor in Pathology
Franz E. Hirsch, M.D., Clinical Instructor in Pathology
J. Robert Thompson, M.D., Clinical Instructor in Pathology
Hugh Wilson, A.B., M.D., Instructor in Clinical Pathology
Seymour A. Greenspon, A.M., Instructor in Clinical Pathology
Erving A. Dreskin, B.S., M.D., Instructor in Pathology
Albert M. Schweitzer, B.S., M.D., Instructor in Pathology (Rush)[1]

[1] Also Resident at the Presbyterian Hospital.

Fred D. Stone, B.S., M.D., Clinical Instructor in Pathology
John P. Ayer, A.B., M.D., Instructor in Pathology (Rush)[1]
Ethel E. Erickson, B.S., M.D., Instructor in Pathology[2]
Marshall O. Alexander, A.B., M.D., Clinical Instructor in Pathology
Eric W. Thurston, M.D., Clinical Instructor in Pathology
John E. Maloney, B.S., M.D., Assistant in Pathology (Rush)
Gerald Fine, B.S., M.D., Assistant in Pathology[2]
Charles A. Ashley, A.B., M.D., Assistant in Pathology (Rush)[1]
Frank J. Bicknell, B.S., M.D., Assistant in Pathology
John M. Craig, A.M., M.D., Assistant in Pathology (Rush)[1]
Frederick D. Dallenbach, A.B., M.D., Assistant in Pathology[2]
Lester W. Fix, M.D., Clinical Teaching Assistant in Pathology
Robert D. Solomon, B.S., M.D., Assistant in Pathology
Henry Tesluk, A.B., M.D., Assistant in Pathology (Rush)[1]
Gordon F. Vawter, M.D., Assistant in Pathology (Rush)[1]

Note: Following the courses in anatomy and biochemistry of the first year, together with introductory work in physiology and bacteriology, the student is prepared to undertake studies on the nature and causation of disease. General and special pathology is given during the first and second quarters of the second year and clinical pathology is offered in the third quarter. A continuation course in special pathology, with emphasis on autopsies and clinical pathological correlation, is conducted in the third year. Courses in surgical and gynecological and obstetrical pathology in the fourth year conclude the formal instruction conducted by this department. The latter courses are given in collaboration with the departments of Surgery and Gynecology.

Required Courses — Second Year

325. General and Special Pathology. The basic principles of pathological processes, including tissue injury and repair, inflammation, circulatory disturbances, retrograde processes and tissue responses to specific infectious agents and neoplasms, are considered in the first part of the course. In the latter part of the course, the disease processes affecting each organ and anatomic system are considered in greater detail. The laboratory exercises are designed to correlate and interpret the gross and microscopic changes occurring in diseased tissues. Lectures, demonstrations, quiz conferences, and laboratory. Thirteen hours each week; F and W. Professor Bennett and staff.

326. Clinical Pathology. Chemical, bacteriologic, serologic, and microscopic examination of the gastro-intestinal contents, urine, blood, cerebrospinal fluid, saliva, sputum, transudates, and exudates are considered. Blood typing, matching, and Rh determinations are considered. Methods of determining basal metabolism and performing functional tests on liver and kidney are studied. Emphasis is placed on interpretation and technic. Lectures, demonstrations, and laboratory. Twelve hours each week; Sp. Professors Bennett and Levinson, and staff.

Required Courses — Third Year

350. Autopsy Pathology. Student participation in scheduled autopsies at the University of Illinois Research and Educational Hospitals, Presbyterian Hospital, and Cook County Hospital form the basis of this course. A complete protocol on each autopsied case is prepared by students assigned in rotation to assist in the performance of the autopsy. The clinical and pathologic data and pertinent literature are presented at a conference of the sectional group of junior medical clerks. Members of the departments of Pathology and Medicine serve as moderators. F, W, and Sp. Professor Bennett, Associate Professor Lev, and others.

351. Surgical Pathology. Lectures and demonstrations covering the pathology of tumors frequently encountered in the practice of surgery and the pathologic physiology of diseases of a surgical nature. This course provides preparation for the fourth-year course in surgical pathology (Pathology 375). One one-hour period each week; F, W, and Sp. Assistant Professor Slaughter and others.

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[1] Also Resident at the Presbyterian Hospital.
[2] Also Resident at the Research and Educational Hospitals.

Required Courses — Fourth Year

375. Surgical Pathology. In conjunction with their clinical work the surgical clerks study systematically gross and microscopic specimens illustrating the common lesions removed by surgical procedures. One two-hour period each week for twelve weeks in addition to the regularly scheduled Surgical-Pathologic Conferences; F, W, and Sp. Professors Bennett and Krakower, and others.

382. Gynecological and Obstetrical Pathology. Same as Obstetrics and Gynecology 382. This course is taught in cooperation with the Department of Obstetrics and Gynecology. Gross and microscopic material representing the lesions of the female genital organs are presented in a systematic fashion and clinical pathological correlations stressed. One two-hour period each week for six weeks; F, W, and Sp. Professor Krakower, Dr. Hirsch, and others.

Required Courses — Occupational Therapy Students

324. Introduction in Pathology for Students in Occupational Therapy. Reactions of tissues to injury, healing of wounds, certain aspects of neoplasia, and the more important diseases of the locomotor system. Twelve hours lecture and demonstration; F. Professor Bennett, Doctors McGrew, Dreskin, and others.

PEDIATRICS

Henry G. Poncher, B.S., M.D., Professor of Pediatrics and Head of the Department
Julius H. Hess, M.D., Professor of Pediatrics, *Emeritus*
Archibald L. Hoyne, A.B., B.S., M.D., Clinical Professor of Pediatrics (Rush), *Emeritus*
Clifford G. Grulee, A.M., LL.D., M.D., Clinical Professor of Pediatrics (Rush), *Emeritus*
Heyworth N. Sanford, B.S., M.D., Clinical Professor of Pediatrics (Rush)
Hugh McCulloch, A.B., M.D., Professorial Lecturer in Pediatrics
I. Pat Bronstein, B.S., M.D., Associate Professor of Pediatrics
Julius B. Richmond, M.S., M.D., Associate Professor of Pediatrics
Herbert R. Kobes, A.B., M.D., M.P.H., Clinical Associate Professor of Pediatrics
Charles K. Stulik, Ph.G., Ph.C., B.S., M.D., Clinical Associate Professor of Pediatrics (Rush)
Craig D. Butler, B.S., M.D., Clinical Associate Professor of Pediatrics (Rush)
Ralph Spaeth, A.B., B.S., M.D., Assistant Professor of Pediatrics
Lester E. Bower, A.B., M.D., Clinical Assistant Professor of Pediatrics
Benjamin M. Gasul, M.S., M.D., Clinical Assistant Professor of Pediatrics
Harry Leichenger, B.S., M.D., Clinical Assistant Professor of Pediatrics
Samuel J. Hoffman, B.S., M.D., Clinical Assistant Professor of Pediatrics
Sidney O. Levinson, B.S., M.D., Clinical Assistant Professor of Pediatrics
Thomas P. Saltiel, B.S., M.D., Clinical Assistant Professor of Pediatrics
Louis J. Halpern, B.S., M.D., Clinical Assistant Professor of Pediatrics
C. Jack Harrison, B.S., M.D., Clinical Assistant Professor of Pediatrics (Rush)
Noel G. Shaw, A.B., M.D., Clinical Assistant Professor of Pediatrics (Rush)
George S. Frauenberger, M.S., M.D., Clinical Assistant Professor of Pediatrics
Benjamin M. Kagan, A.B., M.D., Clinical Assistant Professor of Pediatrics
Matthew M. Lewison, B.S., M.D., Clinical Associate in Pediatrics (Rush)
Harry A. Waisman, Ph.D., M.D., Research Associate in Pediatrics
Kurt Glaser, M.D., Instructor in Pediatrics
Samuel H. Barron, Jr., B.S., M.D., Clinical Instructor in Pediatrics
Warren R. Dammers, M.D., Instructor in Pediatrics
Norbert Pauker, B.S., M.D., Clinical Instructor in Pediatrics
Clara D. Tigay, A.B., M.D., Clinical Instructor in Pediatrics
J. Joseph Baratz, B.S., M.D., Clinical Instructor in Pediatrics
Robert A. Dessent, B.S., M.D., M.P.H., Clinical Instructor in Pediatrics
Rowine H. Brown, B.S., M.D., Clinical Instructor in Pediatrics
Lawrence Breslow, A.B., M.D., Clinical Instructor in Pediatrics
Irving B. Richter, B.S., M.D., Clinical Instructor in Pediatrics
Sol P. Ditkowsky, B.S., M.D., Clinical Instructor in Pediatrics

Abraham A. Wolf, B.S., M.D., Clinical Instructor in Pediatrics
Carl J. Marienfeld, A.B., M.D., Instructor in Pediatrics
Anne Bohning, A.B., M.D., Clinical Instructor in Pediatrics (Rush)
Irene Shmigelsky, M.D., Clinical Instructor in Pediatrics (Rush)
Albert F. Stein, B.S., M.D., Clinical Instructor in Pediatrics
Norman T. Welford, M.D., Clinical Assistant in Pediatrics
Mary E. Kostalek, B.S., M.D., Clinical Assistant in Pediatrics (Rush)
Mildred R. Jackson, M.S., M.D., Clinical Assistant in Pediatrics
Ruth R. Darrow, A.B., M.D., Clinical Assistant in Pediatrics (Rush)
Herman B. Lander, B.S., M.D., Clinical Assistant in Pediatrics
Morris Green, A.B., M.D., Instructor in Pediatrics
Edward F. Lis, B.S., M.D., Instructor in Pediatrics
Aleta V. Burns, B.S., Research Assistant in Pediatrics
Homer S. Parker, B.S., M.D., Clinical Assistant in Pediatrics (Rush)
Sterling D. Garrard, B.S., M.D., Assistant in Pediatrics
Glenn G. Gibson, A.B., M.D., Assistant in Pediatrics
Kenneth S. Nolan, B.S., M.D., Assistant in Pediatrics
Paul F. Wehrle, B.S., M.D., Assistant in Pediatrics
Donald C. Johns, M.D., Clinical Assistant in Pediatrics
William F. Murphy, Jr., A.B., M.D., Clinical Assistant in Pediatrics (Rush)
Harry T. Nagel, M.D., Clinical Assistant in Pediatrics (Rush)
Wildo D. Colon, M.D., Assistant in Pediatrics (Rush)
Marcia M. Madison, A.M., Research Assistant in Pediatrics

Note: The clinical instruction in the Department of Pediatrics is offered in the inpatient and outpatient pediatric services of the Research and Educational, Cook County, and Presbyterian Hospitals, the Contagious Disease Division of Cook County Hospital, and the Municipal Contagious Disease Hospital. During the third year a systematic course in clinical pediatrics is presented to the entire class. In place of the conventional study of diseases in infancy and childhood, the most common symptoms during this age period are considered from the standpoint of their basic physiology, pathology, and age incidence. Supplementing the didactic teaching is a six-week clerkship on the pediatric wards of the Research and Educational, Cook County, and Presbyterian Hospitals. Assessment of the normal and sick child, infant feeding and evaluation of nutritional status are studied in small groups with the patients serving to illustrate the problems encountered in medical practice. Demonstrations in preparation of diets and in occupational therapy in pediatrics are also provided. Clinical and didactic instruction in applied immunology, public health, and contagious diseases are offered in both the third and fourth years. Instruction in the senior year consists of a six-week clerkship at the Children's Division of the Cook County Hospital, Municipal Contagious Disease Hospital, LaRabida Cardiac Convalescent Sanitarium, pediatric outpatient departments of the Research and Educational, Presbyterian, and Cook County Hospitals, and the infant welfare units of the Cook County Health Unit. Throughout the entire teaching program an attempt is made to present the concept of total care of the infant, child, and adolescent by emphasizing the physician's role in enhancing optimal physical, mental, and emotional growth, as well as in the study and management of the variations therefrom.

Required Courses — Third Year

350. Symptom Diagnosis in Infancy and Childhood. Systematic group lectures on the basic mechanisms and age incidence of thirty of the most common symptoms of infants and children. One hour each week; F, W, and Sp. Professor Poncher, Associate Professor Richmond.

351-352. Clerkship. Introduction to the clinical study of the infant, child, and adolescent. History taking, physical examination, and laboratory study of the pediatric patient is taught by demonstration and individual case study. The physical, intellectual, and emotional growth of the patient is studied concomitantly with the medical problems presented. The application of the principles of nutrition is considered in relation to breast feeding, artificial feeding, and dietary supervision of the normal and the sick child. Preparation of diets is presented by demonstration. Six hours a day for six weeks; F, W, and Sp. Professors Poncher and Sanford, Associate Professor Richmond, Assistant Professor Hoffman, Doctors Green, Glaser, and Dammers.

Required Courses — Fourth Year

375. Clerkship. The clerkship is of six weeks' duration. It is divided into two small groups which are assigned to the pediatric departments of the Research and Educational Hospitals and the Children's Division of the Cook County Hospital for the study of patients on the wards and in the outpatient departments. During one week, each morning is devoted to the study of contagious diseases at the Municipal and County contagious disease hospitals under the direction of faculty members on the staffs of these hospitals. At this time the theory and practice of immunizations in pediatrics are considered. The afternoons of one week are spent at the LaRabida Jackson Park Sanitarium where small groups receive systematic instruction on the diagnosis and management of rheumatic fever while studying the patients of that institution. Once a week two students visit nursery schools, infant welfare clinics, and school health programs, and serve as advisory members of the medical staff. The clerkship thus affords a broad orientation in the fields of infant and child welfare, public health, and pediatric practice in the office and in the hospital wards.

376. Pediatric Seminars. Pediatric symptom diagnosis, pediatric therapeutics, endocrinology, and current pediatric journal reviews are presented in seminar session. Three one-hour periods each week for six weeks for the students who are on the pediatric clerkship; F, W, and Sp. Professors Poncher and Sanford, Associate Professors Bronstein and Richmond, Doctors Glaser, Green, Dammers, Marienfeld, and Lis.

Required Courses — Occupational Therapy Students

324. Pediatric Occupational Therapy. The role of the occupational therapist in pediatrics. Twelve hours lecture.

PHARMACOLOGY AND TOXICOLOGY

Carl C. Pfeiffer, Ph.D., M.D., Professor of Pharmacology and Head of the Department
Hugh A. McGuigan, Ph.D., M.D., Professor of Pharmacology, *Emeritus*
Walter J. R. Camp, M.D., Ph.D., Professor of Pharmacology and Toxicology, and State Toxicologist
Clarence W. Muehlberger, Ph.D., Professorial Lecturer in Pharmacology
Walton Van Winkle, Jr., A.B., M.D., Professorial Lecturer in Pharmacology
Robert E. Thompson, Ph.D., Professorial Lecturer in Pharmacology
Klaus R. W. Unna, M.D., Associate Professor of Pharmacology
Jules H. Last, Ph.D., M.D., Assistant Professor of Pharmacology
Virgil A. Gant, Ph.D., Assistant Professor of Toxicology
James A. Bain, Ph.D., Research Associate in Pharmacology
Epperson E. Bond, A.B., Research Associate in Pharmacology
Elizabeth H. Jenney, M.S., Research Associate in Pharmacology
Milton J. Schiffrin, Ph.D., Lecturer in Pharmacology
Theodore R. Sherrod, Ph.D., Instructor in Pharmacology
Robert M. Kohlenbrenner, B.S., Assistant in Pharmacology
Daniel A. Lang, B.S., Assistant in Pharmacology
Robert E. Lee, B.S., Assistant in Pharmacology
Edward W. Pelikan, Assistant in Pharmacology
Isadore Pitesky, B.S., Assistant in Pharmacology

Required Courses — Second Year

325. Pharmacology, Toxicology, and Chemotherapy. Lectures and quizzes; W and Sp; 3-hour weekly laboratory, W; 2-hour weekly demonstration, Sp. Prerequisite: Acceptable courses in biochemistry and physiology. Professor Pfeiffer and staff.

Required Courses — Third Year

350. Conferences on Therapy. Discussion of recent advances in therapy and critical evaluation of methods of treatment by several invited specialists for each discussion topic. One hour each week; F, W, and Sp. Associate Professor Lendrum.

PHYSICAL EDUCATION

John W. Brown, M.S., Instructor in Physical Education for Men

Note: In addition to the work offered in Physical Education, an extensive intramural athletic program for men is in operation. Intercollegiate athletics are limited to basketball at present. Students who do not have a college degree and three years of varsity competition may compete with varsity teams from the Urbana-Champaign departments. A small gymnasium and athletic field are open daily. Recreational swimming and handball are offered free to male students at the Duncan Y.M.C.A. Women students are offered use of the West Side Y.W.C.A. and the archery and table tennis equipment at the Illini Union Building.

Elective Courses

Physical Education Practice. The measurement, development, and maintenance of physical fitness as a firsthand experience in accordance with each student's needs and abilities. Two hours each week. Mr. Brown and others.

PHYSICAL MEDICINE AND REHABILITATION

A. PHYSICAL MEDICINE AND REHABILITATION

H. Worley Kendell, M.D., Professor of Physical Medicine and Rehabilitation, and Head of the Department
Arthur A. Rodriquez, B.S., M.D., Assistant Professor of Physical Medicine and Rehabilitation

Note: Instruction by patient demonstration and audio-visual aids as it relates to the clinical and diagnostic uses of physical agents and the various aspects of rehabilitation employed in the practice of physical medicine and rehabilitation. Instruction encompasses the rehabilitative aspects of rheumatic, cardiovascular, and other chronic diseases; neurology, particularly in its application to special problems such as hemiplegia, paraplegia, and other chronic neurological disorders; orthopaedics as it applies to congenital and acquired deformities; surgery as it applies to traumatic, amputee, and plastic cases; and pediatrics as it relates to the poliomyelitic, rheumatic, cerebral palsy, and similar patients.

B. OCCUPATIONAL THERAPY

Beatrice D. Wade, A.B., O.T.R., Associate Professor and Director of Occupational Therapy
Florence M. MacLean, A.B., O.T.R., Assistant Professor and Clinical Director of Occupational Therapy
Angeline A. Howard, B.S., O.T.R., Instructor in Occupational Therapy
Sarah L. Gephardt, B.F.A., O.T.R., Instructor in Occupational Therapy
Alice M. Clement, A.B., O.T.R., Instructor in Occupational Therapy
Marie J. Reed, B.S., O.T.R., R.P.T., Instructor in Occupational Therapy
Blanche M. Popelka, B.S., O.T.R., Assistant in Occupational Therapy
Grace DeTamble, B.S., O.T.R., Assistant in Occupational Therapy
Mabel A. ValDez, B.S., O.T.R., Assistant in Occupational Therapy

Courses

375. Theory of Occupational Therapy in Medical and Surgical Conditions. A detailed study of the function of occupational therapy as a treatment for medical and surgical conditions. Psychological reactions, media, special problems and precautions are considered. Thirty-six hours; F, W, and Sp. Miss Howard.
376. Theory of Occupational Therapy in Orthopaedics. Principles of occupational therapy in the treatment of the most prevalent orthopaedic conditions which respond to this form of treatment. Instruction in joint measurements, crutch walking, and various methods of recording progress are stressed and closely correlated with the clinical experience received under the supervision of the same instructor. Thirty-six hours; F, W, and Sp. Miss Reed.
377. Theory of Occupational Therapy in Pediatrics. A study of the application

of child guidance principles in the treatment of the child suffering from physical disease or emotional disorders. Twelve hours; F, W, and Sp. Miss Gephardt.

378. Theory of Occupational Therapy in Psychiatry and Neurology. A general orientation to the function of occupational therapy as a form of indirect therapy in the treatment of psychosomatic, psychoneurotic, and psychiatric cases. The application of activities as treatment for specific types of psychoses and neurological conditions; methods of recording behavior; relation of occupational therapy to the post-hospital rehabilitation plan. Thirty-six hours; F, W, and Sp. Associate Professor Wade, Miss Clement.

379. Administration and Equipment. A study of the organization of modern hospitals and correlation of services therein. Administrative and equipment problems of an occupational therapy department. Each student plans, executes, and submits a detailed plan of an original piece of adjustable equipment. Sixteen hours of lectures; sixteen hours of laboratory; Sp. Associate Professor Wade, Assistant Professor MacLean.

380. Community Services. A study of the organization and scope of social services, public and private, utilized by the therapist; a survey of medical and psychiatric social work. Twenty-four hours of lectures; field trips; Sp. Staffs of agencies; Assistant Professor MacLean, coordinator.

381. Rehabilitation. A detailed study of the function of occupational therapy in the total field of rehabilitation; a review of the rehabilitation programs for specific disabilities; a consideration of the laws affecting programs; instruction in methods of job analysis; treatment of industrial disability cases. Twenty-four hours of lectures; field trips; S. Miss Popelka.

382. Group Activities in Occupational Therapy. A consideration of the principles of Group Work as applied to the field of the physically and mentally abnormal; the presentation of varied activities from the Group Work viewpoint and the fields of service in which it functions. Twenty-four hours of lectures; forty-eight hours of laboratory; W. Occupational Therapy staff.

383. Application of Principles. Lectures, case studies, and conferences under the direction of physicians and therapists during student's five months' affiliation in hospitals providing advanced instruction in orthopaedics, psychiatry, and tuberculosis. Fifty hours of lectures, conferences, demonstrations; F, W, Sp, and S. Staffs of affiliating hospitals.

Clinical Lectures. Lectures by physicians and surgeons which include the etiology, outstanding symptoms, and general treatment of physical and mental disorders with emphasis on those phases of illness to be treated through occupational therapy. This series embraces instruction in pediatrics, orthopaedics, psychiatry, neurology, medicine, surgery, dermatology, ophthalmology, and otolaryngology. (For description of courses see Pediatrics 324, Orthopaedic Surgery 324, Psychiatry 324, Medicine 324, Surgery 324, Neurology and Neurological Surgery 324, Pathology 324, Bacteriology 324.) 120 lecture hours. Faculty of departments in the College of Medicine.

C. PHYSICAL THERAPY

Dorothy Iddings, A.B., R.P.T., Acting Clinical Director of Physical Therapy
Donna J. Thiemann, B.S., R.P.T., Staff Physical Therapist
Ruby Dawson, B.S., R.P.T., Staff Physical Therapist
Ruth Claus, B.S., R.P.T., Staff Physical Therapist
Marion Taft, B.P.E., Staff Physical Therapist
Joyce Grimm, B.S., R.P.T., Staff Physical Therapist

Courses

(No courses given at the present time.)

PHYSIOLOGY

George E. Wakerlin, Ph.D., M.D., Professor of Physiology and Head of the Department
Albert Bachem, Ph.D., Professor of Biophysics

Carlos I. Reed, Ph.D., Professor of Physiology
Warren S. McCulloch, A.M., M.D., Professor of Physiology and of Psychiatry, and Neurophysiologist
Lathan A. Crandall, Jr., Ph.D., M.D., Professorial Lecturer in Physiology
William S. Hoffman, Ph.D., M.D., Professorial Lecturer in Physiology
Raymond C. Ingraham, Ph.D., Associate Professor of Physiology
John P. Marbarger, Ph.D., Associate Professor of Physiology and Director of Research in the Physical Environment Unit
William V. Whitehorn, A.B., M.D., Assistant Professor of Physiology
Alfred A. Schiller, M.S., M.D., Assistant Professor of Physiology
E. Elizabeth Painter, Ph.D., Assistant Professor of Physiology
Bess G. Osgood, Ph.D., Research Associate in Physiology
Delbert E. Philpott, B.S., Research Associate in Physiology
Edwin A. Ohler, M.S., Instructor in Physiology
James P. Kiely, M.S., M.D., Instructor in Physiology
Joseph M. Kiely, B.S., M.D., Instructor in Physiology
Roger W. Sevy, M.S., Assistant in Physiology
William G. Pogue, M.D., Assistant in Physiology
Robert B. Bird, B.S., Assistant in Physiology
Thomas L. Brannick, B.S., Assistant in Physiology
John B. Moore, B.S., Assistant in Physiology
Chester Placek, B.S., Research Assistant in Physiology
Robert J. Lomastro, B.S., Research Assistant in Physiology
Gloria B. Fein, B.S., Research Assistant in Physiology
Charles J. Lockwood, B.S., Research Assistant in Physiology
Mary S. Burns, B.S., Research Assistant in Physiology

Required Courses — First Year

324. Human Physiology. Physiology of blood, circulation, and respiration. Lectures, quiz-conferences, demonstrations, and laboratory. Ten hours each week; Sp. Professors Wakerlin, Bachem, and Reed, Associate Professors Ingraham and Marbarger, Assistant Professors Whitehorn, Schiller, Painter, and others.

Required Courses — Second Year

325. Human Physiology. Continuation of Physiology 324. Physiology of digestion, excretion, endocrines, nutrition, metabolism, and heat regulation. Lectures, quiz-conferences, demonstrations, and laboratory. Seven hours each week; F. Professors Wakerlin, Bachem, and Reed, Associate Professors Ingraham and Marbarger, Assistant Professors Whitehorn, Schiller, Painter, and others.
326. Human Physiology. Continuation of Physiology 325. Physiology of muscle and nerve, central nervous system and senses. Lectures, quiz-conferences, demonstrations, and laboratory. Ten hours each week; W. Professors Wakerlin, Bachem, and Reed, Associate Professors Ingraham and Marbarger, Assistant Professors Whitehorn, Schiller, Painter, and others.

Elective Courses

(Open only to qualified students. Time to be arranged)

351. Advanced Physiology. This course is designed to meet the needs of students desiring advanced detailed knowledge of a limited field. Different fields are selected and announced in advance. Subjects covered are blood, circulation, muscle, gastrointestinal tract, kidney, endocrines, metabolism and nutrition, growth and neurophysiology. Professors Wakerlin and Reed, Associate Professors Ingraham and Marbarger, Assistant Professors Whitehorn, Schiller, and Painter.
352. Problems in Physiology. Research in physiology for third-year and fourth-year medical and dental students who do not have the baccalaureate degree. Professors Wakerlin, Reed, and McCulloch, Associate Professors Ingraham and Marbarger, Assistant Professors Whitehorn, Schiller, and Painter.

PREVENTIVE MEDICINE AND PUBLIC HEALTH

Earl E. Kleinschmidt, M.D., D.P.H., Associate Professor of Preventive Medicine and Public Health
Max C. Igloe, B.S., M.D., M.P.H., Associate Professor of Preventive Medicine and Public Health
Sol R. Rosenthal, Ph.D., M.D., Associate Professor of Preventive Medicine and Public Health
Thomas G. Hull, Ph.D., Assistant Professor of Preventive Medicine and Public Health
Clarence W. Klassen, B.S., Assistant Professor of Preventive Medicine and Public Health
Herbert E. McDaniels, Ph.D., Assistant Professor of Preventive Medicine and Public Health
Edward A. Piszczek, M.D., M.P.H., Assistant Professor of Preventive Medicine and Public Health
Kenneth M. Morse, M.S., Instructor in Preventive Medicine and Public Health

Required Courses — Second Year

330. Preventive Medicine and Public Health. Lectures and demonstrations covering principles of health conservation and the prevention of disease. Three hours each week; Sp. Associate Professor Kleinschmidt and staff.

Required Courses — Third Year

350. Preventive Medicine and Medical Care. Integration of clinical preventive medicine with therapeutic medicine; survey of available medical care. One hour each week; F. Associate Professor Kleinschmidt and staff.
351. Public Health Administration as Applied to Medical Care. Functions of health departments and their relationship to the practicing physician. One hour each week; W. Associate Professor Kleinschmidt and staff members of the Illinois Department of Public Health.
352. Industrial Hygiene. Preventive Medicine as applied to industry. One hour each week; Sp. Associate Professor Kleinschmidt and staff.

Elective Courses

375. Preventive Medicine Seminar. Review of current literature and research contributions of staff and students. Elective for senior students. Two hours each week; W and Sp. Associate Professor Kleinschmidt.

PSYCHIATRY

Francis J. Gerty, B.S., M.D., Professor of Psychiatry and Head of the Department
Ralph C. Hamill, Ph.B., M.D., Clinical Professor of Psychiatry (Rush), *Emeritus*
Warren S. McCulloch, A.M., M.D., Professor of Psychiatry and of Physiology, and Neurophysiologist
Hugh T. Carmichael, M.D., C.M., M.S., Professor of Psychiatry
David Shakow, Ph.D., Professor of Psychology
Franz G. Alexander, A.B., M.D., Clinical Professor of Psychiatry
Sigvald Refsum, M.D., Professorial Lecturer in Psychiatry
David M. Olkon, A.M., M.D., Clinical Associate Professor of Psychiatry, *Emeritus*
Morris Braude, M.D., Clinical Associate Professor of Psychiatry (Rush), *Emeritus*
Ladislas J. Meduna, M.D., Associate Professor of Psychiatry
Frederic A. Gibbs, A.B., M.D., Associate Professor of Psychiatry and Electroencephalographer
Beulah C. Bosselman, A.B., M.D., Associate Professor of Psychiatry
Abraham A. Low, M.D., Clinical Associate Professor of Psychiatry
Harry R. Hoffman, B.S., M.D., Clinical Associate Professor of Psychiatry (Rush)
Alfred P. Solomon, A.B., M.D., Clinical Associate Professor of Psychiatry
George J. Mohr, B.S., M.D., Clinical Associate Professor of Psychiatry
Donald A. R. Morrison, B.S., M.D., Clinical Associate Professor of Psychiatry

Irene C. Sherman, Ph.D., M.D., Assistant Professor of Psychiatry
L. William Earley, A.B., B.S., M.D., Assistant Professor of Psychiatry
Seymour N. Stein, A.B., B.S., M.D., Assistant Professor of Psychiatry and Research Physiologist
Julian H. Pathman, Ph.D., Assistant Professor of Psychiatry (Psychologist)
Kalman Gyarfas, M.D., Clinical Assistant Professor of Psychiatry
M. Phyllis Wittman, Ph.D., Clinical Assistant Professor of Psychology
Israel R. Sonenthal, M.S., M.D., Clinical Assistant Professor of Psychiatry
Samuel H. Kraines, B.S., M.D., Clinical Assistant Professor of Psychiatry
Jay E. McCormick, M.D., Clinical Assistant Professor of Psychiatry (Rush)
Jacob Paskind, M.D., Clinical Assistant Professor of Psychiatry
Samuel B. Broder, M.S., M.D., Clinical Assistant Professor of Psychiatry
William J. Nolan, M.D., Clinical Assistant Professor of Psychiatry
George L. Perkins, Ph.B., M.D., Clinical Assistant Professor of Psychiatry
Howard E. Weatherly, A.B., M.D., Clinical Assistant Professor of Psychiatry
Sophie W. S. Sloman, B.S., M.D., Clinical Assistant Professor of Psychiatry
Jack Weinberg, B.S., M.D., Clinical Assistant Professor of Psychiatry
Donovan G. Wright, B.S., M.D., Clinical Assistant Professor of Psychiatry
Rudolph Novick, M.D., Clinical Assistant Professor of Psychiatry
Joan Fleming, A.M., M.D., Clinical Assistant Professor of Psychiatry
Ralph E. Talbott, A.B., B.S., M.D., Clinical Assistant Professor of Psychiatry (Rush)
Robert G. McMillan, M.D., Clinical Assistant Professor of Psychiatry
James A. Bain, Ph.D., Research Associate in Pharmacology
Eric W. Peterson, B.S., M.D., Research Associate in Psychiatry
Frederick W. Stamps, M.D., Research Associate in Psychiatry
Craig W. Goodwin, B.S., Instructor in Psychiatry and Physicist
Virginia Tarlow, B.S., M.D., Instructor in Psychiatry
Lester MacLean, A.B., M.D., Instructor in Psychiatry
Alan K. Rosenwald, Ph.D., Instructor in Psychiatry and Clinical Psychologist
Paul E. Nielson, Ph.D., M.D., Instructor in Psychiatry
William Weisdorf, B.S., M.D., Clinical Instructor in Psychiatry
Erich Paschkes, M.D., Clinical Instructor in Psychiatry
Louis Belinson, A.B., M.D., Clinical Instructor in Psychiatry
Marjorie C. Meehan, A.B., M.D., Clinical Instructor in Psychiatry (Rush)
Joel S. Handler, A.B., M.D., Clinical Instructor in Psychiatry and Psychiatric Consultant in the Health Service
Samuel Victor, M.D., Clinical Instructor in Psychiatry
Samuel Liebman, M.D., Clinical Instructor in Psychiatry
David S. Harman, M.D., Clinical Instructor in Psychiatry
Henry H. Fineberg, A.B., M.D., Clinical Instructor in Psychiatry
Alden Raisbeck, A.B., M.D., Clinical Instructor in Psychiatry
Marc H. Hollender, B.S., M.D., Clinical Instructor in Psychiatry
Harry M. Segenreich, M.D., Clinical Instructor in Psychiatry
Erna L. Gibbs, Research Assistant in Psychiatry
Frank M. Lorimer, M.D., Research Assistant in Psychiatry
George T. Stanton, A.B., M.D., Research Assistant in Psychiatry
Ralph Sonnenschein, M.S., M.D., Research Assistant in Psychiatry
Barbara S. Lipton, B.S., M.D., Clinical Assistant in Psychiatry
H. Hugh Beguesse, B.S., M.D., Clinical Assistant in Psychiatry
Bernard Block, Ph.D., M.D., Assistant in Psychiatry
George H. Pollock, M.S., M.D., Assistant in Psychiatry
Joan Longini, Ph.D., M.D., Assistant in Psychiatry
Sol Altschul, M.D., Assistant in Psychiatry
Myrtle Bernstein, M.D., Assistant in Psychiatry
William Devlin, M.D., Assistant in Psychiatry
Marilyn M. Fleming, A.B., Assistant in Psychiatry and Electroencephalographer
George Mowery, Assistant in Psychiatry and Electroencephalographer
Elizabeth Stone, Electroencephalographer

Note: The course in psychiatry extends through all four years of the medical curriculum. It is taught as a basic discipline necessary for the adequate education of every physician. From the beginning the aim is to keep teaching close to the actual patient.

At first a few didactic lectures are used for the purpose of orientation. Thereafter, wherever possible, cases of patients are used to make evident the points being taught, even in the earlier part of the course, through case demonstrations and interviewing under supervision followed by discussion. In the last two years clerkships in the ward and outpatient department are used chiefly. Psychiatry is taught as a specialty only to the extent that the general practitioner will need to have knowledge of those common forms of definite psychiatric disorder which he is sure to encounter in general practice. For the most part the attempt is made to teach the fundamentals of psychiatric technique in history taking as a means of eliciting important information, the use of the patient-physician relationship as an implement for exploration and treatment and an understanding of the general principles applying in the interpretation and use of the information gained from the patient by the methods taught. It is not the intention that the student shall become a psychiatrist. It is intended that he shall be able to recognize the psychiatric implications of any case, functional or organic, in any patient and to have some understanding of his own potentialities in dealing with these implications.

Required Courses — First Year

310. Introduction to Psychiatry. An orientation course presenting psychiatry as a basic discipline in the preparation for medical practice. It includes a review of the range of psychiatry in medicine, of the practical need for the use of psychiatric information, and methods in dealing with the problems of the individual and of the social group. An attempt is made to give the students firsthand experience with the psychiatric implications appearing in the work of clinics and hospitals, institutions and public and private facilities where the evidence of the value and importance of the applications of psychiatric principles and methods can be discerned easily. An opportunity is afforded to teams of two students each to visit a number of the clinics, hospitals, and other community facilities and institutions. Information about these places is obtained through the examination of annual reports and through talking with persons in charge of them. Arrangements are made for a number of the teams to interview patients. Each team reports to the class and the report is discussed during the class period. One hour each week; F and W. Professors Gerty and Shakow, Doctors Lipton and Nielson.

Required Courses — Second Year

325. Child Psychiatry. An effort is made to lay the groundwork for thinking in psychiatric terms. The socially and emotionally meaningful experiences of childhood are discussed in terms of their effect on the development of the child. There follows discussion of the major characteristic ways in which the child copes with the actual problems of adjustment with which he is faced. There is included a description of the characteristic mechanisms of defense evolved in childhood and adolescence. Clinical material is used freely to illustrate the childhood life situations being discussed. One hour each week; F and W. Associate Professor Mohr, Assistant Professor Weatherly.

325. Physical Diagnosis (History Taking). Instruction in the essential principles of history taking. Principles, dynamic emotional factors, and use of factual material obtained are stressed in relation to various patients with abnormal findings. Sections of ten students for two hours each week taught by the psychiatric department as part of the Department of Medicine course in physical diagnosis; Sp. Professor Carmichael, Assistant Professors Sonenthal, Earley, and Weinberg, Doctors Tarlow, Harmon, Victor, Raisbeck, Lipton, Hollender, Handler, Block, Nielson, and Stanton.

Required Courses — Third Year

350. Clinical Descriptive Psychiatry. The clinical course for juniors deals with the individual neuroses and psychoses. Presentation is largely descriptive though discussion of psychodynamics and treatment is included. Illustrative cases are presented. One hour each week; F. Associate Professor Bosselman.

351. Clinical Clerkship. The chief instruction in the first clinical year is given in this course. Students are assigned for individual study of patients in the open ward of the Illinois Neuropsychiatric Institute under the supervision of members of

the hospital staff in psychiatry. Suitable patients on the closed wards may also be used. The psychiatrist-social worker-psychologist team is witnessed in action and the student participates in seminar discussions. Three hours each day for four weeks; F, W, and Sp. Professors Gerty and Carmichael, Associate Professor Gibbs, Assistant Professors Sherman, Earley, Wright, and Pathman, Doctors Tarlow, Fineberg, Nielson, Handler, and Raisbeck.

Required Courses — Fourth Year

375. Clerkship. (Classified as required; not available to all members of the class in 1949-1950.) Supervised experience in interviewing patients in the psychiatric outpatient department with discussion of the problems revealed and of the means of treatment. Students are assigned in groups of six. Six hours each day for six weeks; F, W, and Sp. Professors Gerty and Carmichael, Assistant Professors Sherman, Sonenthal, Wright, McMillan, and Novick, Doctors MacLean, Tarlow, Raisbeck, Weisdorf, Paschkes, Harman, Victor, Lipton, Block, Pollock, Longini, Liebman, Devlin, Altschul, and Bernstein.

376. Summary Course. The emphasis is on the usefulness of the psychiatric approach in dealing with patients regardless of the branch of medical practice in which a physician works. There is stress on the patient-physician relationship as the nuclear point in treatment. Particular attention is paid to the fact that the physician himself is the most important instrument in carrying out treatment whether his approach is medical, surgical, or psychological. There is consideration of the general principles of psychotherapy with illustrations drawn from the cases of patients. One hour each week; F. Dr. Hollender.

Elective Courses

377. Seminar in Psychosomatic Problems. Discussion of principles and demonstration of cases. One and one-half hours each week; F, W, and Sp. Open to physicians, residents, interns, and to senior medical students with consent of instructors. Professors Alexander and Carmichael.

Required Courses — Occupational Therapy Students

324. Psychiatry for Occupational Therapy Students. A brief condensation of this branch of medicine; a detailed study of the dynamics of mental mechanisms, etiology and symptoms of the major psychoses. Twenty-four hours of lectures; F. Dr. Altschul.

RADIOLOGY

Roger A. Harvey, M.S., M.D., Professor of Radiology and Head of the Department
Fay H. Squire, A.B., M.D., Clinical Professor of Radiology (Rush)
Theodore J. Wachowski, B.S., M.D., Clinical Professor of Radiology and Associate Radiologist
Arthur S. J. Petersen, B.S., M.D., Assistant Professor of Radiology and Assistant Radiologist
Lewis Haas, M.D., Assistant Professor of Radiology
Danely P. Slaughter, B.S., M.D., Assistant Professor of Surgery and Director of the Outpatient Tumor Clinic
Abraham Grossman, A.B., M.D., Assistant Professor of Radiology and Assistant Radiologist
John S. Laughlin, Ph.D., Assistant Professor of Radiology and Radiation Physicist
Audrey L. Wilson, B.S., M.D., Clinical Assistant Professor of Radiology
David S. Beilin, B.S., M.D., Clinical Assistant Professor of Radiology
Benjamin D. Braun, A.B., B.S., M.D., Clinical Assistant Professor of Radiology
Samuel A. Leader, B.S., M.D., Clinical Assistant Professor of Radiology
Harry Slobodin, A.B., M.D., Clinical Assistant Professor of Radiology
Brantley M. Johnson, M.D., Clinical Instructor in Radiology
Nathan Starkman, M.D., Clinical Instructor in Radiology
John W. Clark, M.D., Clinical Instructor in Radiology
Keith R. Irish, B.S., M.D., Instructor in Radiology

William A. Klauber, Jr., B.S., M.D., Instructor in Radiology
Robert W. Watson, M.D., Instructor in Radiology
Carl E. Clark, B.S., M.D., Assistant in Radiology
Geoffrey A. Fricker, A.B., M.D., Assistant in Radiology
Anton M. Pantone, B.S., M.D., Assistant in Radiology
Lawrence J. Stetson, B.S., M.D., Assistant in Radiology
John M. Hewitt, B.S., M.D., Assistant in Radiology
William S. Judy, B.S., M.D., Assistant in Radiology

Note: The teaching of radiology occurs throughout the four-year medical curriculum. The first-year students are given fluoroscopic and film demonstrations in small groups to correlate motion, function, and relationships with dissection material. Second-year students are given informal demonstrations of X-ray films in relation to autopsy material. During the clinical years the students see a continual correlation of X-ray with the various branches of medicine through case study, cooperative departmental conferences, and formal rounds.

The aim of the teaching program is to familiarize the student with the scope of radiology, the indications for and limitations of diagnostic and therapeutic radiology, the hazards of this specialty, and the physical principles underlying this specialty and atomic medicine.

Required Courses — Third Year

350. Radiology. This course surveys the entire field of diagnostic and therapeutic radiology. The diagnostic portion is approached through discussions of underlying physical and mechanical principles and an explanation of the purposes of different types of equipment. Emphasis is placed upon the different types of examinations, normal and abnormal roentgen findings, and indications and contraindications for these examinations. The therapeutic portion includes discussions of actions and uses of radium, roentgen rays, and radioactive isotopes. Biological effects of these radiations and the public health aspects of atomic medicine are stressed. Lectures and demonstrations one hour each week; F, W, and Sp. Professor Harvey, Assistant Professors Petersen and Laughlin.

Required Courses — Fourth Year

375. Dispensary Radiology. Logic and technic of X-ray interpretation are taught in small groups. Correlation of patients' symptoms and X-ray findings is made by clinical rounds. Detection and management of cancer is taught by demonstration and discussion in tumor clinics, wards, operating rooms and radiation therapy section. F, W, and Sp. Professors Harvey, Squire, and Wachowski, Assistant Professors Slaughter, Petersen, Beilin, Braun, Grossman, Leader, Wilson, and Slobodin, Doctors Johnson, Starkman, Irish, Klauber, Clark, and Watson.

SURGERY

Warren H. Cole, B.S., M.D., Professor of Surgery and Head of the Department

A. GENERAL SURGERY

Nelson M. Percy, M.D., Professor of Clinical Surgery, *Emeritus*
Charles H. Phifer, M.D., Professor of Surgery, *Emeritus*
Carl B. Davis, A.B., M.D., Professor of Surgery (Rush), *Emeritus*
Kellogg Speed, B.S., M.D., Professor of Surgery (Rush), *Emeritus*
Selim W. McArthur, Ph.B., M.D., Professor of Surgery, *Emeritus*
Vernon C. David, A.B., M.D., D.Sc., Rush Clinical Professor of Surgery
Edwin M. Miller, A.B., M.D., Clinical Professor of Surgery (Rush)
Charles B. Puestow, M.D., Ph.D., Clinical Professor of Surgery
Oscar E. Nadeau, B.S., M.D., Clinical Professor of Surgery
Hillier L. Baker, B.S., M.D., Clinical Professor of Surgery (Rush)
Roger T. Vaughan, Ph.B., M.D., Clinical Associate Professor of Surgery (Rush), *Emeritus*

Francis H. Straus, B.S., M.D., Clinical Associate Professor of Surgery (Rush), assigned to Anatomy part time
Arrie Bamberger, B.S., M.D., Clinical Associate Professor of Surgery
John D. Koucky, M.S., M.D., Clinical Associate Professor of Surgery
Lindon Seed, M.S., M.D., Clinical Associate Professor of Surgery
Géza de Takats, M.D., M.Surg., Clinical Associate Professor of Surgery
Willard Van Hazel, A.B., M.D., Clinical Associate Professor of Surgery
Frank J. Jirka, M.D., Clinical Associate Professor of Surgery
Louis W. Schultz, B.S., D.D.S., M.D., Clinical Associate Professor of Oral Surgery
William H. Hazlett, M.D., Clinical Associate Professor of Surgery
Will F. Lyon, A.B., M.D., Clinical Associate Professor of Surgery
Julius L. Spivack, M.D., LL.D., Clinical Associate Professor of Surgery
Rudolph J. E. Oden, A.B., M.D., D.Sc., Clinical Associate Professor of Surgery
Paul W. Greeley, A.B., M.D., Clinical Associate Professor of Surgery
Carlos S. Scuderi, Ph.D., M.D., Clinical Associate Professor of Surgery
Chester C. Guy, B.S., M.D., Clinical Associate Professor of Surgery
Hilger P. Jenkins, B.S., M.D., Clinical Associate Professor of Surgery
Egbert H. Fell, A.B., M.D., Clinical Associate Professor of Surgery (Rush), assigned to Anatomy part time
R. Kennedy Gilchrist, B.S., M.D., Clinical Associate Professor of Surgery (Rush)
Foster L. McMillan, B.S., M.D., Clinical Associate Professor of Surgery
John Van Prohaska, B.S., M.D., Clinical Associate Professor of Surgery
Harold I. Meyer, M.S., M.D., Clinical Assistant Professor of Surgery
Minas Joannides, M.S., M.D., Clinical Assistant Professor of Surgery
Stanley E. Lawton, B.S., M.D., Clinical Assistant Professor of Surgery (Rush)
Frank V. Theis, B.S., M.D., Clinical Assistant Professor of Surgery (Rush)
Danely P. Slaughter, B.S., M.D., Assistant Professor of Surgery and Director of the Outpatient Tumor Clinic
Carl O. G. Almquist, B.S., M.D., Clinical Assistant Professor of Surgery
Morris L. Parker, B.S., M.D., Clinical Assistant Professor of Surgery
John T. Reynolds, M.S., M.D., Clinical Assistant Professor of Surgery
John M. Dorsey, B.S., M.D., Clinical Assistant Professor of Surgery (Rush)
Earl Garside, M.S., M.D., Clinical Assistant Professor of Surgery
Carl Ireneus, Jr., M.S., M.D., Clinical Assistant Professor of Surgery
Philip Shambaugh, A.B., M.D., Clinical Assistant Professor of Surgery
John H. Olwin, A.B., M.D., Clinical Assistant Professor of Surgery
Everett L. Strohl, M.S., M.D., Clinical Assistant Professor of Surgery
Arthur E. Diggs, A.B., M.D., Clinical Assistant Professor of Surgery (Rush)
Philip Thorek, B.S., M.D., Clinical Assistant Professor of Surgery
Clarence W. Monroe, B.S., M.D., Clinical Assistant Professor of Surgery (Rush)
Ormand C. Julian, Ph.D., M.D., Clinical Assistant Professor of Surgery
John F. Pick, B.S., M.Mus., M.D., Clinical Assistant Professor of Surgery
Bernard G. Sarnat, M.S., D.D.S., M.D., Clinical Assistant Professor of Oral Surgery
Raymond Green, B.S., M.D., Clinical Associate in Surgery
H. Louis Mishkin, B.S., M.D., Clinical Associate in Surgery
C. David Brown, B.S., M.D., Clinical Instructor in Surgery
Willis G. Diffenbaugh, B.S., M.D., Clinical Instructor in Surgery
Harold A. Roth, A.B., B.S., M.D., Clinical Instructor in Surgery
Louis A. Holub, B.S., M.D., Clinical Instructor in Surgery
Lawrence W. Peterson, M.S., M.D., Clinical Instructor in Surgery
Robert J. Jensik, M.S., M.D., Clinical Instructor in Surgery
John O. Hanson, B.S., M.D., Clinical Instructor in Surgery
Frank C. Hofrichter, B.S., M.D., Clinical Instructor in Surgery
Carl B. Davis, Jr., A.B., M.D., Clinical Instructor in Surgery (Rush)
Burton C. Kilbourne, M.D., Clinical Instructor in Surgery
Russell C. Hanselman, A.B., M.D., Clinical Instructor in Surgery (Rush)
William H. Requarth, M.S., M.D., Clinical Instructor in Surgery
George D. Kaiser, M.S., M.D., Clinical Instructor in Surgery
Tilden C. Everson, M.S., M.D., Clinical Instructor in Surgery
Harry G. Hardt, Jr., B.S., M.D., Clinical Instructor in Surgery
James D. Majarakas, M.S., M.D., Instructor in Surgery

Ward H. Eastman, B.S., M.D., Instructor in Surgery
Margaret Hie-Ding Lin, A.M., M.D., Clinical Assistant in Surgery
Edson F. Fowler, M.S., M.D., Clinical Assistant in Surgery
Frederic A. dePeyster, A.B., M.D., Clinical Assistant in Surgery (Rush)
Edward L. Schrey, B.S., M.D., Clinical Assistant in Surgery
Frank R. Johnson, B.S., M.D., Assistant in Surgery
William E. Looby, B.S., M.D., Clinical Assistant in Surgery
John J. Milroy, B.S., M.D., Clinical Assistant in Surgery (Rush)
Edward F. Scanlon, A.B., M.D., Assistant in Surgery (Rush)
Frederick J. Wahl, B.S., M.D., Assistant in Surgery (Rush)
Donald S. Auten, B.S., M.D., Assistant in Surgery
Harry W. Southwick, B.S., M.D., Assistant in Surgery
Robert P. Meyer, B.S., M.D., Assistant in Surgery (Rush)
Edward J. Berman, A.B., M.D., Assistant in Surgery (Rush)
Jack C. Berger, B.S., M.D., Assistant in Surgery (Rush)
Warner L. Crouch, M.D., Assistant in Surgery (Rush)
Robert W. Ehrlich, A.B., M.D., Assistant in Surgery (Rush)
William J. Grove, M.S., M.D., Assistant in Surgery
Howard H. Hamlin, A.B., B.S., M.D., Clinical Assistant in Surgery (Rush)
Edward J. Hill, Jr., A.B., M.D., Clinical Assistant in Surgery
Hushang Javid, M.S., M.D., Assistant in Surgery
Joseph L. Jernegan, B.S., M.D., Assistant in Surgery (Rush)
Jack Lasner, B.S., M.D., Clinical Assistant in Surgery
John F. Latenser, M.D., Assistant in Surgery (Rush)
Daniel McCaskill, M.D., Assistant in Surgery (Rush)
Richard O. Mossey, M.D., Assistant in Surgery (Rush)
Calvin R. O'Kane, A.B., M.D., Assistant in Surgery (Rush)
Walter J. Wilkins, Jr., M.D., Assistant in Surgery (Rush)
Orville T. Bonnett, Jr., B.S., M.D., Assistant in Surgery
Robert J. Johnston, B.S., M.D., Assistant in Surgery

Note: Class work in surgery is begun in the third quarter of the second year and consists of an informal introductory seminar course covering such problems as surgical bacteriology, infections, and wounds; in addition, a short course in physical diagnosis is given during the third quarter. In the third year the student is assigned to the surgical wards for 12 weeks of clerkship, utilizing the entire day for this work except the hours of 8:00 to 9:00 a.m., and 4:00 to 5:00 p.m. The students spend all their time on the ward examining patients, taking histories, etc., except for about an hour each day when they are brought together for formal discussion of their patients. Illinois Research and Educational, Presbyterian, and Cook County Hospitals are used for these clerkships. In the fourth year about half the student's time is spent in Dispensaries or the Tumor Clinic. The remainder of his time is spent on a surgical clerkship. Illinois Research and Educational, Presbyterian, and St. Luke's Hospitals are used for these assignments.

Required Courses — Second Year

325. Physical Diagnosis. Methods of examining surgical patients and practical demonstrations. One hour each week for twelve weeks; Sp. Associate Professor Prohaska.
326. Introduction to Surgery. Didactic seminar, including basic principles of asepsis, surgical bacteriology, infections, surgical methods, wounds and miscellaneous surgical infections. One hour each week for twelve weeks; Sp. Doctors Peterson, Brown, Hanson, and Roth.

Required Courses — Third Year

350. Surgical Clinic. Research and Educational Hospitals. One hour each week for twelve weeks; F, W, and Sp. Professor Cole, Associate Professors Greeley and Schultz, Assistant Professor Reynolds.
351. Minor Surgery and First Aid. Demonstrations on patients. One hour each week for twelve weeks; F, W, and Sp. Dr. Requarth.
352. Introductory Course in Fractures. Cook County Hospital. One hour each week for twelve weeks; W. Associate Professor Scuderi.

353. Surgical Clerkship. Students are assigned patients and are responsible for the history and laboratory work. General (also emergency), thoracic, oral, and neuro-circulatory surgery are included. Thirty-three hours each week for twelve weeks; F, W, and Sp. Research and Educational Hospitals: Professors Cole and Puestow, Associate Professors Van Hazel, Greeley, de Takats, and others. Presbyterian Hospital: Professors David, Miller, and Straus, Assistant Professor Dorsey, and others. Cook County Hospital: Professor David, Associate Professors Seed, Jirka, and Koucky, Assistant Professor Ireneus, and others.
354. Emergency Surgery. Cook County Hospital. One two-hour period each week for six weeks; F, W, and Sp. Associate Professor Koucky, Dr. Hanson.

Required Courses — Fourth Year

355. Pediatric Surgery. Cook County Children's Hospital. One hour each week for six weeks; F, W, and Sp. Dr. Davis.
356. Surgery Dispensary and Tumor Clinic. History taking, diagnosis, minor surgery, and surgical dressings. Research and Educational Hospitals. Two two-hour periods each day for three weeks; F, W, and Sp. Professor Cole, Associate Professors de Takats, Spivack, Schultz, Greeley, Van Hazel, and Jenkins, Assistant Professors Ireneus, Almquist, Prohaska, Reynolds, Julian, and Thorek, Dr. Kaiser, and others.
357. Fractures. Two one-hour periods each week for twelve weeks; F, W, and Sp. Associate Professor Scuderi.

Required Courses — Occupational Therapy Students

324. Surgical Conditions (for Occupational Therapy Students). Physical conditions which are treated through surgery including definitions, causes, symptoms, prognosis, and possible complications. Surgical treatment in relation to the value of occupational therapy in preoperative and postoperative treatment with consideration for the patient's total rehabilitation. F and Sp.

B. UROLOGY

Robert H. Herbst, M.D., Professor of Urology (Rush), *Emeritus*
Herman L. Kretschmer, Ph.G., M.D., D.Sc., Professor of Urology (Rush), *Emeritus*
Norris J. Heckel, A.B., M.D., Clinical Professor of Urology (Rush)
Russell D. Herrold, B.S., M.D., Clinical Associate Professor of Surgery
Joseph H. Kiefer, B.S., M.D., Associate Professor of Surgery, in charge of the Division
Cornelius W. Vermeulen, A.B., M.D., Associate Professor of Surgery
James W. Merricks, Jr., A.B., B.S., M.D., Clinical Associate Professor of Urology (Rush)
Edward Buckman, B.S., M.D., Clinical Associate Professor of Urology (Rush)
Thomas Cottrell, M.D., Clinical Assistant Professor of Urology (Rush)
Dorrin F. Rudnick, B.S., M.D., Clinical Assistant Professor of Urology
Frederick W. Schacht, M.S., M.D., Clinical Assistant Professor of Urology
Cloquitt O. Ritch, B.S., M.D., Clinical Assistant Professor of Urology
Joseph S. Drabanski, B.S., M.D., Clinical Associate in Urology
Reuben B. Gaines, A.B., M.D., Clinical Instructor in Urology (Rush)
George O. Baumrucker, B.S., M.D., Clinical Instructor in Urology
Thomas L. C. Cottrell, Jr., B.S., M.D., Assistant in Urology (Rush)
Irwin T. Rieger, B.S., M.D., Assistant in Urology (Rush)
Edward A. Sticka, M.D., Assistant in Urology (Rush)

Required Courses — Third Year

353. Clerkship. Given in conjunction with Surgery 353 (Surgery Clerkship). Students are assigned patients and are responsible for the history and laboratory work. They also attend ward rounds. F, W, and Sp. Research and Educational Hospitals: Associate Professors Kiefer and Vermeulen. Presbyterian Hospital: Professor Heckel, Associate Professor Merricks. Cook County Hospital: Assistant Professor Rudnick.

356. Urology Dispensary. History taking, examinations, and treatment. Research and Educational Hospitals. Four two-hour periods each week for four weeks; F, W, and Sp. Associate Professors Herrold, Kiefer, and Vermeulen, Assistant Professors Schacht and Ritch, Dr. Drabanski, and others.

361. Clinical Urologic Seminar. The more important urologic conditions are covered in detail by discussion and demonstration of patients. One hour each week for twelve weeks; F, W, and Sp. Associate Professors Kiefer and Vermeulen.

C. ANESTHESIA

Max S. Sadove, B.S., M.D., Associate Professor of Anesthesia and Head of the Division
Mary M. Lyons, M.D., Clinical Associate Professor of Anesthesia (Rush)
W. Allen Conroy, M.D., Clinical Assistant Professor of Anesthesia
Charles D. Anderson, M.S., M.D., Assistant Professor of Anesthesia (Rush)
Wilma C. Stafford, B.S., M.D., Clinical Instructor in Anesthesia (Rush)
Lucille Watt, M.S., M.D., Clinical Instructor in Anesthesia (Rush)
Wilda E. Raymon, M.D., Clinical Instructor in Anesthesia (Rush)
George Roberts, A.B., B.S., M.D., Clinical Instructor in Anesthesia (Rush)
Betty Taylor Hall, B.S., M.D., Clinical Instructor in Anesthesia (Rush)
Lawrence D. Ruttle, M.D., Clinical Instructor in Anesthesia
Reuben C. Balagot, B.S., M.D., Assistant in Anesthesia
John T. Nelson, M.D., Assistant in Anesthesia
Douglas D. Rodriguez, B.S., M.D., Assistant in Anesthesia (Rush)
Arun K. Sen, A.B., I.Sc., B.M., Assistant in Anesthesia
Kenneth S. Weiss, M.D., Assistant in Anesthesia
Ludwig L. Blum, B.S., M.D., Assistant in Anesthesia

Required Courses — Third Year

353. Clerkship. Given as part of Surgery 353 (Surgical Clerkship). The student is assigned to Anesthesia full time for one week; under supervision, he gives the anesthetic to patients in the operating room. F, W, and Sp. Associate Professor Sadove and others.

362. Anesthesia. One hour each week for twelve weeks; Sp. Associate Professor Sadove and others.

SUMMARY OF CLOCK HOURS

First and Second Years

Subjects	First Quarter		Second Quarter		Third Quarter		Total
	Didactic	Laboratory	Didactic	Laboratory	Didactic	Laboratory	
FIRST YEAR							
Anatomy, including Histology, Embryology, and Neurology	58	141	64	160	58	132	613
Bacteriology	..	..	..	..	24	44	68
Biological Chemistry	35	66	35	66	..	..	202
Physiology	..	..	..	..	46	66	112
Psychiatry	11	..	12	..	..	..	23
Total	104	207	111	226	128	242	1,018
SECOND YEAR							
Bacteriology	35	67	..	..	..	..	102
Medicine	..	..	..	..	12	..	12
Obstetrics	..	..	..	..	22	..	22
Pathology, General	46	95	46	95	..	..	282
Pathology, Clinical	..	..	..	..	46	99	145
Pharmacology	..	..	46	33	35	22	136
Physiology	46	33	46	66	..	..	191
Physical Diagnosis	12	22	12	22	12	22	102
Preventive Medicine	..	..	..	..	34	..	34
Psychiatry	11	..	12	..	..	..	23
Surgery	..	..	..	..	11	..	11
Total	150	217	162	216	172	143	1,060

Third and Fourth Years

Subjects	Third Year	Fourth Year
MEDICINE CLERKSHIP SERVICE Includes the following specialties: Dermatology Internal Medicine Sociology and Jurisprudence Neurology Pathology, Autopsies Psychology Public Health Therapeutics	12 wks.	12 wks.
SURGICAL CLERKSHIP SERVICE Includes the following specialties: Anesthesia Anatomy, Topographic Neuro-Surgery Ophthalmology Orthopaedics Otolaryngology Roentgenology Surgery Urology	12 wks.	12 wks.
OBSTETRICS AND GYNECOLOGY	6 wks.	6 wks.
PEDIATRICS	6 wks.	6 wks.

POSTGRADUATE DIVISION

The Postgraduate Division is organized as a branch of the Office of the Dean of the College of Medicine. The faculty consists of the faculty of the College of Medicine. The policy is to offer special departmental courses as well as general courses. Registration is limited and applicants must be properly qualified. From time to time announcements will be made of courses, giving details of registration, numbers accepted, tuition fees, and similar information.

GENERAL COURSE

300. Basic Science. This course is designed to review the basic sciences and coordinate them with clinical medicine. The teaching staff of the clinical and preclinical departments are jointly utilized and men who are authorities in their particular fields are called upon. Lectures, seminars, and demonstrations are given using case presentations with patients as texts. Anatomical dissection correlated with Embryology, Histology, and Surgical Anatomy are covered as well as the broad problems of Physiology, Bacteriology, Pharmacology, and Pathology. See departmental postgraduate courses 306, 310, 336, 355, and 360. Nine months; F, W, and Sp. Fee: $150 tuition and $50 laboratory each quarter. Associate Professor Milles.

ANATOMY

305. Dissection. This course for physicians and surgeons provides for complete or partial dissection of the human cadaver. Two or more persons will be assigned to each cadaver, or parts thereof. The number of applicants is limited, depending on the material available. No formal or special instruction is given. Fee: $75 tuition each quarter; laboratory fees to be arranged. Note: Physicians and surgeons who are members of the staff of the Colleges of Medicine and Dentistry have the privilege of dissection in the Department of Anatomy after payment of a fee covering the mere cost of material. Professors Kampmeier and Cooper.

306. Basic Science Course in Anatomy. (Division of Basic Science Course for Specialty Training). A review dissection of the entire human body from the practical point of view. During the lectures and demonstrations the clinical considerations are stressed in the presentation of the embryological, fundamental, histological, and neurological data. Fee: $100 each quarter. Associate Professor Zechel.

BACTERIOLOGY

310. Refresher Course in Bacteriology, Immunology, and Preventive Medicine. (Division of Basic Science Course for Specialty Training). A refresher course for medical graduates and others designed for a review of basic fundamental as well as practical aspects of bacteriology and related material. One lecture each week; F and W. Fee: $50 each quarter. Professors Novak and Shaughnessy.

MEDICINE

325. Allergy. A course emphasizing the clinical aspects of allergic diseases, but also affording a thorough background in the fundamental sciences on which clinical knowledge rests. Among the subjects offered are respiratory allergy, food allergy, dermatologic allergy, preparation of allergens, botany, electrocardiography, immunochemistry, immunology, general medicine, otolaryngology, pathology, pediatrics, pharmacology and physiology with attendance at the allergy clinic. One year; F, W, Sp, and S. Fee: $150 each quarter. Associate Professors Rappaport and Rostenberg.

OBSTETRICS AND GYNECOLOGY

315. Refresher Course for Physicians. A two-week course limited to four physicians. An informal course consisting of participation in departmental lectures, demonstrations, ward walks, and clinics, with opportunity to witness deliveries both in

the hospital and in the home. Most of the work is given at the Research and Educational Hospitals. The facilities of the Cook County Hospital and Presbyterian Hospital are used to supplement the work in part. This course may be started any Monday morning. Fee: $10.

316. Refresher Course in Cooperation with the State Department of Public Health. One-week course offered in conjunction with the Illinois State Department of Public Health at the Research and Educational Hospitals. The course consists of formal lectures, clinical conferences, round table discussions, manikin demonstrations, ward walks, and outpatient clinics on prenatal care. The staff of the Research and Educational Hospitals plus invited lecturers from Northwestern University, Loyola University, and the University of Chicago give the course. This course is offered during the summer and will be announced in the State Medical Journal. Fee: $10.

OPHTHALMOLOGY

330. Postgraduate Course in Ophthalmology. Designed for those who wish to take up ophthalmology as a specialty. Consists of (1) basic sciences related to ophthalmology, (2) instruction in the use of ophthalmic instruments, and (3) supervised work in the outpatient department. Media of instruction include lectures, dissection, laboratory work in pathology and bacteriology, demonstrations, supervised instruction in the use of instruments, work in the outpatient department, including refraction, motility and glaucoma clinics, ward rounds, cadaver surgery, observation at operations, and seminars. Eight months; F, W, and Sp. Fee: $700.

OTOLARYNGOLOGY

The following courses may be registered for individually or in groups, the time being arranged with the instructor. Additional hours may be scheduled with consent of the Head of the Department. Applicants must be graduates of a Class A medical school and present acceptable credentials.

340. Postgraduate Basic Course. Provides a full-time basic course of instruction for those intending to prepare for special practice. Usually nine months but may be extended to twelve by the addition of a three-month period of clinical work. 9:00 a.m. to 5:00 p.m. Registration by the third Monday in September. Fee: $150 tuition and $100 laboratory each quarter. Professor Lederer and staff.

341. Principles of Otolaryngology. Lectures, demonstrations, cadaver dissection, surgical anatomy, animal and cadaver surgery, physiology, laboratory and photographic technic, histology and pathology, and seminar. Duration: Three months. Fee: $150. Professor Lederer and staff.

342. Bronchoesophagology. Consists of lectures, animal and cadaver work, and actual experience in the bronchoscopic operating room and outpatient clinics. Includes indirect and direct laryngoscopy, bronchoscopy, and esophagoscopy. May also be scheduled separately by accredited specialists. Duration: Didactic and laboratory, two weeks. Fee: $150. Associate Professor Holinger, Assistant Professors Friedberg and Andrews.

344. Refresher Courses. Brief review courses of one or two weeks in length covering the more important subjects of the specialty. Largely didactic. Held several times during the academic year as determined by need. Fee: $75 a week. Staff.

PATHOLOGY

336. Applied Pathology. (Division of Basic Science Course for Specialty Training). This course provides recent graduates, residents, and older physicians with an opportunity to extend their undergraduate training in pathology. The laboratory exercises are based on the study of fresh gross specimens and corresponding microscopic sections. Clinico-pathologic correlation is stressed. Physicians enrolled in this course may apply for registration in Forensic Pathology. Two three-hour periods each week; F and W. Fee: $100 each quarter. Professors Bennett, Krakower, and Saphir, Associate Professors Milles, King, and Lev, Assistant Professor Kearns and others.

337. Forensic Pathology. This course is based on the postmortem studies of the bodies of persons examined by the coroner's physician. Methods of recording and

evaluating results of the autopsy and the collection of specimens for toxicological and other investigations are emphasized. The course is designed to familiarize physicians, especially pathologists, with the problems of the forensic pathologist. In addition an opportunity is afforded for the study of tissues changed by naturally acquired disease processes. Available during F, W, Sp, and S; hours to be arranged after conference with instructor. Fee: $100 each quarter. Assistant Professor KEARNS and others.

338. PATHOLOGY OF DISEASES OF ALLERGIC NATURE. This course is offered for special postgraduate students in allergy. Lectures and demonstrations covering the more important pathologic changes that are believed to be the result of mechanisms of hypersensitization. One two-hour period each week; Sp. Fee: $20 each quarter. Professors BENNETT and KRAKOWER, Associate Professor LEV, Doctors PARMACEK, THOMPSON, and others.

PHARMACOLOGY

355. NEWER DEVELOPMENTS IN PHARMACOLOGY AND THERAPEUTICS. (Division of Basic Science Course for Specialty Training). This course covers the basic pharmacological background and newer developments in pharmacology and therapeutics. One lecture each week; F and W. Fee: $20 each quarter. Professor PFEIFFER and staff.

PHYSIOLOGY

360. CLINICAL PHYSIOLOGY. (Division of Basic Medical Science Course for Specialty Training). This course offers training in applied physiology for graduates in medicine as part of preparation for specialties in medicine and surgery. Subjects covered are blood, circulation, respiration, gastrointestinal tract, metabolism, body fluids and excretion, endocrines, and neuromuscular system. Lectures, demonstrations, and conferences. Six hours each week. Fee: $100 each quarter. Professor WAKERLIN, Assistant Professors WHITEHORN and SCHILLER.

361. CLINICAL PHYSIOLOGY OF ALLERGY. This course is a part of the specialty training offered by the Allergy Unit. Lectures and demonstrations. Two hours each week. Fee: $20 each quarter. Associate Professor INGRAHAM.

362. PHYSIOLOGY OF HEARING. This course is a part of the specialty training offered by the Department of Otolaryngology. Lectures and demonstrations. Six hours each quarter. Fee: $20 each quarter. Professor BACHEM.

363. CLINICAL PHYSIOLOGY. (Extension course). This course is intended to refresh practicing physicians on various aspects of applied physiology. Lectures and demonstrations. One hour each week. Fee: $25. Professor WAKERLIN, Professorial Lecturer CRANDALL, Associate Professor INGRAHAM, Associate Professor GROSSMAN (Department of Clinical Science), Assistant Professors SCHILLER, WHITEHORN, and PAINTER.

364. CLINICAL PHYSIOLOGY. (Division of Veterans Administration Residency Training). This course is a part of the residency and specialty training offered by the Veterans Administration at Hines Hospital. Lectures and demonstrations. One and one-half hours each week. Professor WAKERLIN, Associate Professor INGRAHAM, Associate Professor GROSSMAN (Department of Clinical Science), Assistant Professors SCHILLER and WHITEHORN.

PSYCHIATRY

321. TRAINING COURSE IN ELECTROENCEPHALOGRAPHY FOR PHYSICIANS. Instruction is provided in basic principles of electrophysiology and in electroencephalographic instrumentation, recording, interpretation, and localization for those interested in becoming qualified electroencephalographers. Three months; F and W. Fee: $200 each quarter. Associate Professor GIBBS.

SPECIAL COURSES

Courses in individual departments are made available by special arrangement. These courses are under the direction of the Dean and the head of the department concerned. Inquiries should be addressed to the Postgraduate Division, Office of the Dean, College of Medicine, 1853 West Polk Street, Chicago 12, Illinois.

ORGANIZATIONS

Alumni Association of the College of Medicine

President — Frank L. Stone '10, 30 N. Michigan Ave., Chicago; Ce 6-7764.
President-Elect — E. A. Christofferson, 4010 Madison St., Chicago; Ke 3-1161.
First Vice-President — Walter Camp '23, 1853 W. Polk St., Chicago; Mo 6-3900.
Second Vice-President — Fred Glenn '96, 533 N. Pine St., Chicago; Au 7-0064.
Secretary-Treasurer — M. H. Streicher '24, 30 N. Michigan Ave., Chicago; St 2-6678.
Necrologist — Walter Simmonds '14, 137 Marion St., Oak Park; Euclid 23.
Councillors (1950) —
William Plice '02, 4458 W. Madison St., Chicago; Au 7-9800.
T. Wachowski '32, 310 Ellis Ave., Wheaton; Wheaton 444.
Franklin Wilson '12, 25 E. Washington St., Chicago; Ce 6-3595.
H. M. Swenson '29, 3179 N. Clark St., Chicago; Bu 1-0577.
Councillors (1951) —
D. Beilin '19, 2000 Lincoln Park West, Chicago; Li 9-2700.
Roy O. Riser '31, 120 Main St., Park Ridge; Park Ridge 302.
B. Cushman '16, 25 E. Washington St., Chicago; Ra 6-5572.
O. Hawkinson '06, 807 N. East St., Oak Park; Euclid 8208.
Councillors (1952) —
L. Wood '29, 122 S. Michigan Ave., Chicago; Ha 7-2433.
C. Phifer '02, 30 N. Michigan Ave., Chicago; St 2-3136.
Paul Grabow '02, 2405 N. Halsted St., Chicago; Li 9-3487.
W. R. Sladek '33, 5145 — 25th St., Cicero; Town Hall 1691.
Nominating Committee —
1950: Paul Grabow '02, 2405 N. Halsted St., Chicago; Li 9-3487.
1951: F. P. Thometz '08, 4100 W. Madison St., Chicago; Sa 2-6880.
1952: M. H. Streicher '24, 30 N. Michigan Ave., Chicago; St 2-6678.

Alpha Omega Alpha

The international honorary medical fraternity Alpha Omega Alpha was founded at the College of Medicine in 1902. High ranking students in the third and fourth years are eligible for election to membership.

Faculty Adviser. — Percival Bailey.

Membership Awards in 1948. — Seniors: Frank Bender, Herbert Bessinger, Joseph Branit, Jr., Marian Cohen, Alvin Getz, Harold Goodman, Sheldon Gorsky, Robert Hare, Sanford Izner, Elisabeth Lassers, Charles McCammon, Leslie McClinton, Albert Novotony, Inés Santos, John Schneewind, Theodore Sherrod, Ralph Swerdlow. Juniors: Julina Gylfe, Robert Lee, Martin Pepper, Sholem Postel, David Rabinov, Alvin Suslick.

Phi Mu Phi

Phi Mu Phi is an honorary musical fraternity open to students of the Chicago Professional Colleges who take an active part in the musical organizations.

Faculty Advisers. — Milan V. Novak (Glee Club), Leon L. Gershbein (Orchestra).

Pi Kappa Epsilon

Pi Kappa Epsilon is a national honorary medical fraternity to which members are elected on the basis of character, personality, and professional qualities.

Faculty Advisers. — Warren H. Cole, Percival Bailey, and Hugo O. Deuss.

Sigma Xi

In 1928 the Society of Sigma Xi granted a charter for the organization of a chapter of this society at the College of Medicine. Its object is the promotion of research.

UNIVERSITY OF ILLINOIS-URBANA
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